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FEBRUARY 13, 1915.

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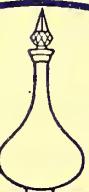
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re Paraffinum Liquidum

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We remain, Gentlemen, your obedient servants,
 SILVERTOWN LUBRICANTS, LIMITED

Telegrams
 "Volumetric, Silver, London"
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 A.B.C. Code (5th Edition)

John Evans Best

Managing Director

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BRANCH OFFICES: MELBOURNE, SYDNEY, AND ADELAIDE, AUSTRALIA.

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Alcohol Ltd.	Ampoules Breslau, M., & Co.	Bleeding Bowls Meinecke & Co.	Caps for Bottles, &c. Airtight Capsules Co., Ltd. Betts & Co., Ltd.	Corks Mitchell, N. W., & Sons, Ltd
Anilide y & Sons Ltd.	Anesthetics Duncan, Flockhart & Co. Howards & Sons, Ltd.	Body Belts Berton, Arthur, Ltd. Gray & Selby Maw, S., Son & Sons Schutze, F., & Co., Ltd. Wood, Vincent	Chloride of Lime Brunner, Mond & Co., Ltd.	Corn Plasters Scholl Mfg. Co., Ltd. Solvit Bros.
Salicylic acid	Antineuritic Co., Ltd.	Books, &c. Churchill, J. & A. Martindale's "Extra Pharm" "Spatula, The" "Squire's Companion"	Chlorodrydine Davenport, J. T., Ltd.	Counter Adjuncts Evans Sons Lescher & Webb, Ltd
Anti-Rheumatic Rings	Annatto Fulwood, R. J., & Bland Tomlinson & Hayward, Ltd.	Botanic Druggists Newhall & Mason Potter & Clarke, Ltd.	Chloriform Burrington, Wellcome & Co. Duncane, Flockhart & Co. Macfarlan, J. F. & Co. May & Baker, Ltd. Smith T. & H., Ltd.	Counter Specialities Allen & Hanbury, Ltd. British Drug Houses, Ltd. Burgoine, Burghes & Co. Hewlett, C. J., & Sons, Ltd. Southall Bros. & Barclay, Ltd. Wright, Layman & Umney, Ltd.
Anti-Sweat Machinery	Antineuritic Burge, Warren & Ridgley, Ltd.	Bottles, Jars, &c., Glass	Capsules (various) British Organotherapy Co., Ltd. Denoual, Jules, & Co. Evans Sons Lescher & Webb, Mawson & Co. Raines, Clark & Co., Ltd. Stevenson, H. E., & Co. Tye, John, & Son	Coupling and Filling Machine Frogrove Machinery Co., Ltd.
Anti-Water Materials	Antineuritic Crawshaw, E., & Co. Lane-Hall, R., & Co.	Bottles, Jars, &c., Glass	Capsules (various) British Organotherapy Co., Ltd. Denoual, Jules, & Co. Evans Sons Lescher & Webb, Mawson & Co. Raines, Clark & Co., Ltd. Stevenson, H. E., & Co. Tye, John, & Son	Court Plaster Solvit Bros.
Artificial Limbs	Antiseptics Bell (John), Hills & Lucas, Ltd. Burt, Boulton & Haywood, Celtol Supply Agency	Cartons Robinson & Sons, Ltd. Suttle & Silverlock, Ltd.	Casein British Casein Co. (1911), Ltd.	Cream of Tartar Pelliot, Henri, & Cie
Artificial Limbs	Annatto Fulwood, R. J., & Bland Tomlinson & Hayward, Ltd.	Carbon Tetrachloride	Citric Acid and Citrates	Creosote Baiss Bros. & Stevenson, Ltd
Artificial Limbs	Anti-Rheumatic Rings	Cartons Robinson & Sons, Ltd. Suttle & Silverlock, Ltd.	Thermometers British Drug Houses, Ltd. Burgoine, Burghes & Co. Howards & Sons, Ltd.	Crepe Bandages Gimber, W., & Son Burge, Warren & Ridgley, Ltd. Norwich Crepe Co. (1866), Ltd. Wood, Vincent
Artificial Limbs	Artificial Limbs Ferris, J. & E. Gray & Selby Haywood, J. H., Ltd.	Casein British Casein Co. (1911), Ltd.	Clinical Thermometers	Cyanides May & Baker, Ltd.
Artificial Limbs	Artificial Limbs Ferris, J. & E. Gray & Selby Haywood, J. H., Ltd.	Cash Tills Gledhill, G. H., & Sons, Ltd. National Cash Register Co. Ltd.	Catheters Mason Bros. & Chapman Warne, Wm., & Co., Ltd.	Dairy Specialities Fullwood, R. J., & Bland Oldfield, Pattinson & Co. Tomlinson & Hayward, Ltd.
Artificial Limbs	Artificial Limbs Ferris, J. & E. Gray & Selby Haywood, J. H., Ltd.	Catheters Mason Bros. & Chapman Warne, Wm., & Co., Ltd.	Cocaine Roques, Ferdinand	Dental Mechanics Fentiman, A. G. Fentiman, J. & Co.
Artificial Limbs	Artificial Limbs Ferris, J. & E. Gray & Selby Haywood, J. H., Ltd.	Cautious Soda Brunner, Mond & Co., Ltd.	Cocaine Roques, Ferdinand	Dental Mechanics Fentiman, A. G. Fentiman, J. & Co.
Artificial Limbs	Artificial Limbs Ferris, J. & E. Gray & Selby Haywood, J. H., Ltd.	Cements Kay Bros, Ltd. Mendit, Ltd.	Cocaine Roques, Ferdinand	Dental Mechanics Fentiman, A. G. Fentiman, J. & Co.
Artificial Limbs	Artificial Limbs Ferris, J. & E. Gray & Selby Haywood, J. H., Ltd.	Chamomile Oil Allen, Stanford, & Sons, Ltd.	Cocaine Roques, Ferdinand	Dental Mechanics Fentiman, A. G. Fentiman, J. & Co.
Artificial Limbs	Artificial Limbs Ferris, J. & E. Gray & Selby Haywood, J. H., Ltd.	Chemicals Baisa Bros. & Stevenson, Ltd. Boake Roberts & Co., Ltd.	Cocaine Roques, Ferdinand	Dental Mechanics Fentiman, A. G. Fentiman, J. & Co.
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Artificial Limbs	Artificial Limbs Ferris, J. & E. Gray & Selby Haywood, J. H., Ltd.	Combs Hovenden, R., & Sons, Ltd.	Continental Props. Breslau, M., & Co.	Developers (Photo.) Evans Sons Lescher & Webb Johnson & Sons (Mfg. Chs.)
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Artificial Limbs	Artificial Limbs Ferris, J. & E. Gray & Selby Haywood, J. H., Ltd.			

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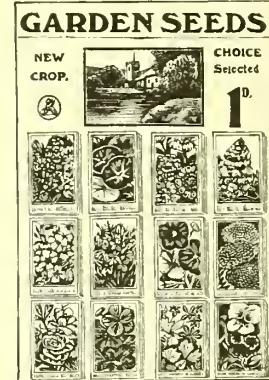
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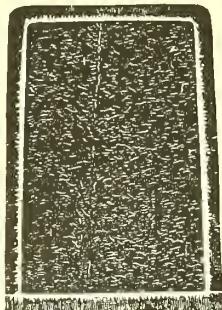
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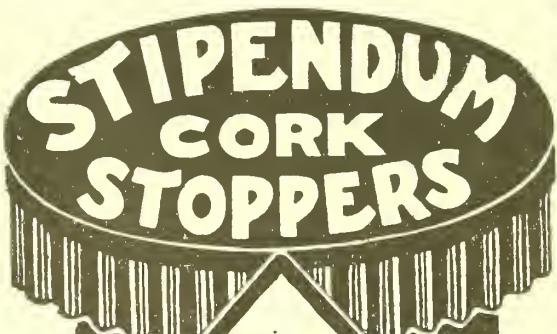
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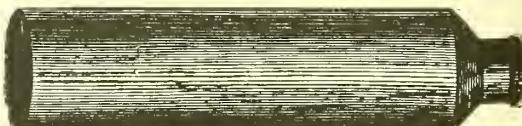
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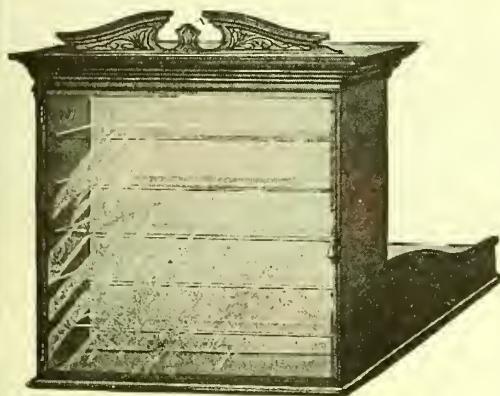
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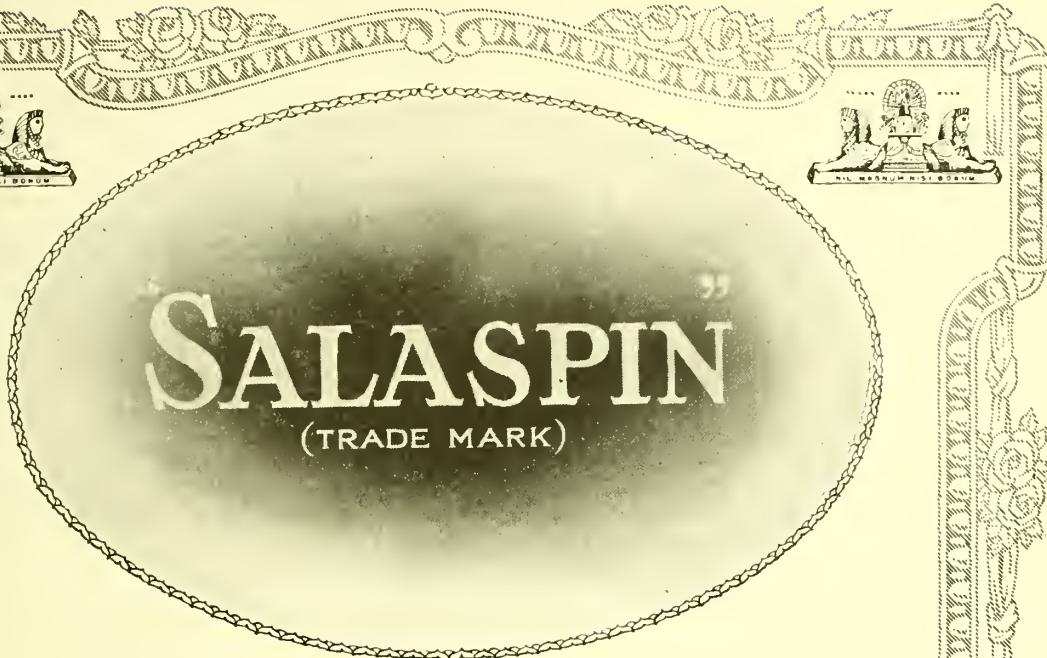
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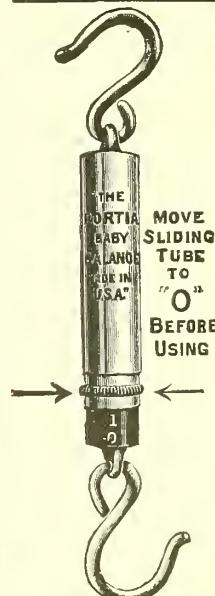
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SPECIAL TERMS ARE OFFERED FOR WHOLE OR PART WINDOW DISPLAYS.

INDEX & BUYERS' GUIDE

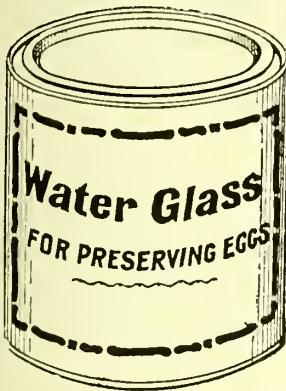
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ALL CHEMISTS
SHOULD STOCK

ABDINE

THE GOLD MEDAL FRUIT DRINK.
Quick Seller. Big Profits. Quarter of a Century's Reputation.
"ABDINE" is the most popular Health Drink. Superior to all Mineral Waters. Sold in 1d. Packets, and Boxes of 13 Packets at 1/- Order through your Wholesale Drug House.
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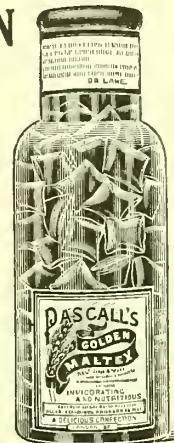
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Pure
Malt
Extract

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of
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Children.

4 OZS. 3½d.

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BEETHAM'S NEW SHOWCARD.—One of the prettiest lithographic productions which have come to us lately is the Larola beauty here depicted. The card measures 24 in. by 18 in., and is all roses, even the word "Larola" being formed from prickly rose-stems. The fair rose-gatherer has rosy cheeks, and she and the setting make so bright a picture that no pharmacy will be complete without it. Copies can be obtained from Messrs. M. Beetham & Son, Cheltenham, the originators of Glycerine-and-Cucumber and Larola.

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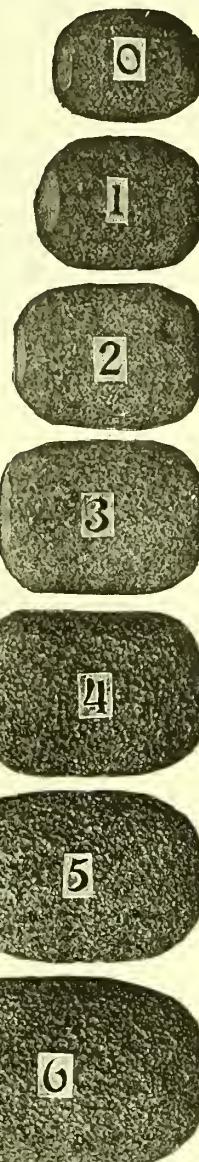
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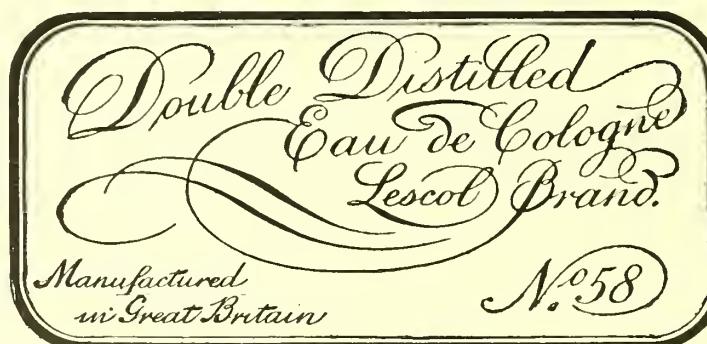
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2 oz. ...	5/6
4 oz. ...	9/4

IN
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WICKERED.

	Per doz.
4 oz. ...	12/6
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1 " ...	29/2
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Very acceptable and necessary Presents for the Sick.

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Keep a stock to meet the demand. Display Gosnell lines with our beautiful patriotic Union Jack Show Card (Eau de Cologne) to give your local public an opportunity to buy the British-made articles they are looking for.

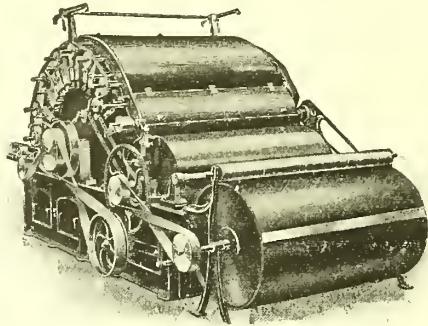
Gosnell's Khaki Crown Crusade is the most effective selling scheme connected with the trade, and Society Eau de Cologne one of the best sellers in connection with this striking and original "Crusade." Write for particulars, which include a special offer of goods to you, with other effective "trade-aids."

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Absorbent Cotton Wool

(SURGICAL WADDING)

Complete plants supplied for manufacture of above.

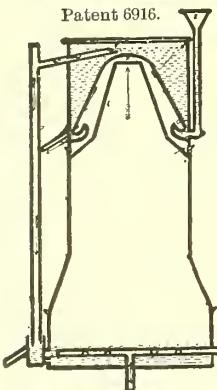


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WM. TATHAM, Ltd.
Rochdale, England.

(3)

Patent 6916.



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We beg to call attention to the fact that our well-known Patent Stills are made for heating by steam or gas. Where this is available it forms a very cheap and efficient method of obtaining distilled water. Any pressure will suit from 10 to 200 lb., made in various sizes to produce from $\frac{1}{2}$ to 15 gallons PER HOUR. Cost of distilled water made this way is practically nil. As with our Gas Stills, these are perfectly automatic. Prices as below:—

1½ gallons per hour,	£3 10 0
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RETAIL AND SMALL WHOLESALE
ESTABLISHMENTS, to

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BRITISH MADE

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Manufactured by
The JOHN DALE Mfg. Coy.,
NEW SOUTHGATE, LONDON, N.

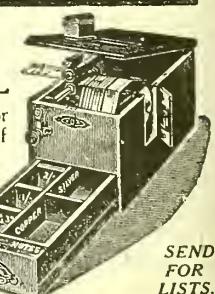
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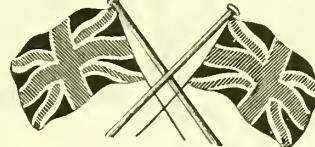
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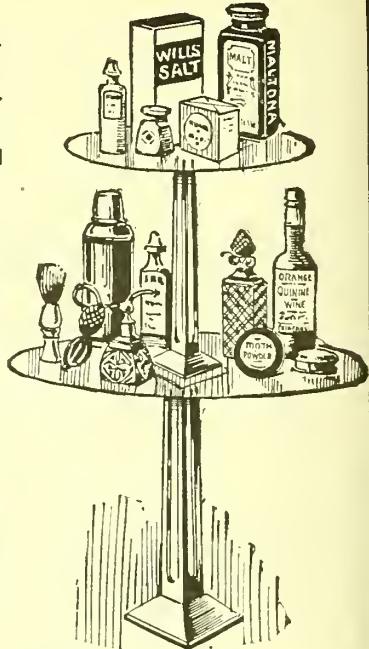
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"LINSEED COMPOUND"

REGD. TRADE MARK OF
KAY'S COMPOUND ESSENCE OF LINSEED.
(Now upon the P.A.T.A.)

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MOUNTAIN FLAX ("Linum Catharticum") PILLS.
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2d.	2/-	"	1/10	16/9
1d. Linen Bags	1/-	"	11d.	8/6
2d.	1/-	6 in box	11d.	16/9
Boxes, about 1½ lb.	4d.	3d.	2/10 pr. doz.	
"	3½d.	8d.	7d.	5/8 "
"	7 "	1/2 "	1/-	10/- "
"	14 "	2/-	1/10	18/3 "

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½-cwt. Bags	5/6 "	5/6	4/7	"
1-cwt. Bags	10/- "	10/-	8/4	"

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	Box of 3 large Tabs.	1/- each	10½d.	7/6 per doz. boxes
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" 1-lb.	10d.	8d.	6/-	"

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LONDON, E.C.

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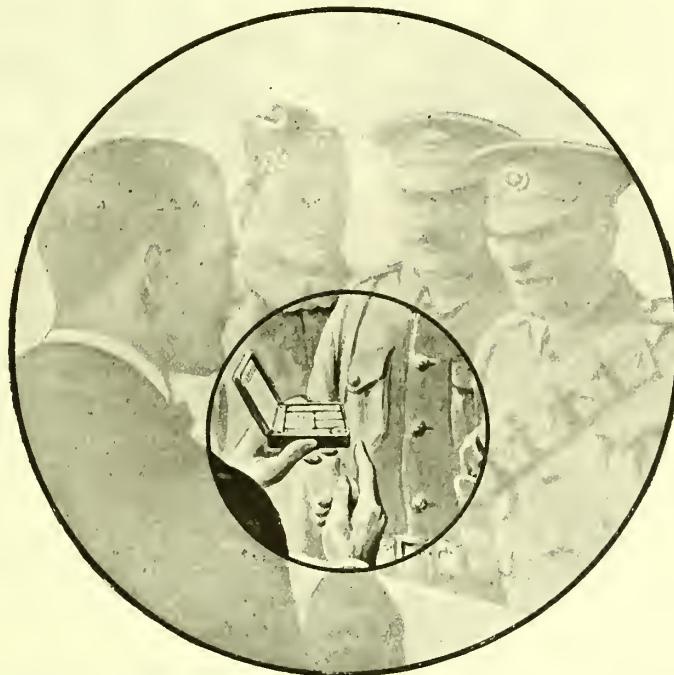
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HEXAMETHYLENTETRAMINE
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Start To-day, introducing No. 710 Pocket Outfit to every
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If you have not stocked this Outfit,
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PEPTON (Fairchild).

This Pepton is of an excellent quality for every purpose for which Pepton may be employed—technical or alimentary.

PEPTON-FAIRCHILD may be used in all bacteriological formulæ, in the usual quantities.

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ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is the leading journal addressing the Chemical, Drug and allied trades in the British Empire and other countries in the Old and New Worlds. It has a larger paid subscription circulation than any other Drug Trade Journal, and is the official organ of nineteen Chemists' Societies in Australia, Ireland, New Zealand, South Africa, and the West Indies.

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In the Coloured Supplement.

Coming Events.
"Minor Experiences."

New Books.
Our American Letter.

Summary.

The aim of our Corner for Students is the subject of a note on p. 48.

The late William Ransom, Hitchin, left an estate valued at over half a million (p. 44).

The prevention and extinction of lice are leading Army subjects at present. See the notes on p. 35 and p. 50.

January export and import trade shows a great improvement. The exports of medicines are practically normal (p. 49).

Correspondents write about how a proprietary remedy should be advertised. This in reply to a querist last week (p. 62).

The obituary is heavy this week, and includes the names of three young men who have lost their lives in the service of King and country (pp. 43-44).

The value of sulphur as a remedy for rheumatism is attested by Sir Lauder Brunton, Bart., M.D., especially when dusted in the socks (p. 50).

Six Insurance dispensing experts express opinions in regard to a panel doctor who has late consultation hours, which keep a chemist later. They make interesting reading (p. 63).

The Woodward's "Gripe-water" action commenced on Wednesday. So far the proceedings have chiefly been devoted to a speech by Mr. Walter, K.C., and evidence by Mr. John C. Umney as to the validity of the trade-mark (pp. 40-41).

Two evening meetings of the Pharmaceutical Society are reported. At one, in Edinburgh, six papers on the B.P. 1914 were read. These we give the gist of (pp. 53-54). In London the communications were on acetylsalicylic acid and alkaline salicylate mixtures (pp. 54-55).

Alum, balsam Peru, potash permanganate, mercury, chiretta, iofrion, phenacetin, and phenazone are dearer. Japanese wax, menthol (c.i.f.), and senega are firmer. Hexamine, hydroquinone, and tartaric acid are among the cheaper articles. A drug-auction of new and second-hand goods was held to-day (p. 58).

European War.

Export of Medicines.—With reference to the revised lists of prohibited exports printed in the *C. & D.*, February 6, pp. 34-35, it is desirable that buyers in the British Colonies and Allied countries should keep in mind the fact that manufacturers and wholesalers in the United Kingdom are able to obtain from the Board of Trade permits for exports in certain cases. This privilege has not been abrogated by the Order gazetted on February 3, so that the conditions for permits mentioned in the *C. & D. Diary*, p. 406, are still in force.

Pharmaceutical Roll of Honour.

Non sibi sed patria.—CICERO.

TWENTY-FIRST LIST.

BURTON, Corporal R. C. (lately with Mayor's & Co., chemists, Inverness), Highland Mounted Brigade Field Ambulance.

DONALD, Driver A. (lately with Mr. J. M. Symington, chemist, Inverness), Highland Mounted Brigade Field Ambulance.

DUNDEE, Sergeant W. J., South African Union Defence Force; Troopers Robert and Albert and Corporal Alexander Dundee, North Irish Horse; and Private Charles Dundee, 14th Batt. (Y.C.V.), Royal Irish Rifles; brothers of Mr. James Dundee, Ph.C. (Ireland), Belfast. Corporal Alexander Dundee was assistant in his brother's pharmacy up to September 4, 1914.

DUPRÉ, Second-Lieutenant George Luce (one of the proprietors of Luce's Eau de Cologne Co., Ltd., Jersey and Southampton), Army Service Corps. Lieutenant Dupré was formerly a sergeant in the Royal Militia of Jersey.

FRASER, Corporal W. (lately with Mr. W. Ogston, chemist, Inverness), Highland Mounted Brigade Field Ambulance.

FRASER, Private D. (lately with Mackenzie & Co., chemists, Inverness), Highland Mounted Brigade Field Ambulance.

HARRIS, Private Arthur F. (lately with Mr. E. H. Slater, chemist, High Street, Epping), R.A.M.C.

HARRISON, Second-Lieutenant Horace D. (son of Alderman John Harrison, chemist, Sunderland), 10th (Service) Batt. Durham Light Infantry.

HODGSON, Beaumont, chemist and druggist, Ainstable, 1st London Sanitary Company, R.A.M.C.

JACK, Private D. (lately with Galloway & Co., chemists, Inverness), Highland Mounted Brigade Field Ambulance.

MACGRUER, Private D. (lately with Mr. W. J. Bethune, chemist, Inverness), Highland Mounted Brigade Field Ambulance.

MACKENZIE, Private H. (lately with Mr. W. J. Bethune, chemist, Inverness), Highland Mounted Brigade Field Ambulance.

MACKIE, James (son of Mr. George Mackie, chemist and druggist, Minto Street, Edinburgh), second-lieutenant, Sir George McCrae's Battalion of the Royal Scots.

MACMILLAN, Corporal D. (lately with Galloway & Co., chemists, Inverness), Highland Mounted Brigade Field Ambulance.

MILLER, Alexander, of Edinburgh, London Scottish.

ROSS, Driver D. (lately with Mitchell & Son, chemists, Inverness), Highland Mounted Brigade Field Ambulance.

THOMAS, Second-Lieutenant T. (youngest son of Mr. D. R. Thomas, of Cousins, Thomas & Sons, chemists, Oxford), Oxford and Bucks Light Infantry.

WHITE, Second-Lieutenant Arthur Henry (only son of Mr. T. A. White, Ph.C., Southsea), 12th Hants Regiment.

Mr. Hildreth Glyn-Jones, son of Mr. W. S. Glyn-Jones, M.P., has been gazetted second-lieutenant in the 10th Battalion Middlesex Regiment from the Officers' Training Corps.

Mr. D. R. Thomas, jun., son of Mr. D. R. Thomas, of Cousins, Thomas & Sons, chemists, Oxford, who is serving with the Queen's Own Oxfordshire Hussars in Flanders, has been home on leave, and has now returned to the Front.

The following pharmaceutical students, assistants, and representatives of wholesale drug-houses are serving in the Australian Overseas Expeditionary Forces:

Sergeant G. Murdoch, Stationary Hospital, A.A.M.S.

Corporal M. C. Hawke, Stationary Hospital, A.A.M.S.

Lieutenant J. A. Bradshaw, 16th Batt. Infantry.

Lance-Corporal A. Kemp, Field Ambulance, A.A.M.S.

Private A. M. Kirton, Field Hospital, A.A.M.S.

Private G. R. Kirton, Field Hospital, A.A.M.S.

Lieutenant J. Newman, Infantry.

Private H. Bacon, Infantry.

Private F. Cass, Infantry.

Private J. Campbell (Neale, Costello & Co.), Infantry.

For the French Red Cross Work.

On Saturday afternoon, February 6, M. Paul Cambon, the French Ambassador to the Court of St. James, reviewed a fleet of about thirty Red Cross ambulance motor-cars for the use of the French Red Cross. Most of the cars were presented by the Scottish Branch of the British Red Cross Society, and all were fully equipped. Prominent among those who were with the Ambassador was Mr. A. Barton Kent, of G. B. Kent & Sons, Ltd., Farrington Road, E.C. Mr. Kent was present in his official capacity as President of L'Entente Cordiale, and the Ambassador and Mr. Kent chatted together all through the proceedings. A photograph of them appeared in the London edition of the "Daily Mirror" on Monday. Attached to the fleet was a very complete repair-shop, which came in for special attention by the Ambassador and his suite.

Transport to Russia.

Since the closing of the Baltic navigation, huge quantities of merchandise intended for Russia have been forwarded by railway through Sweden round the Gulf of Bothnia, and, according to a Swedish report in a German paper, the accumulation at the Swedish railway terminus has now become so unmanageable that the Swedish railways are reported to be refusing the acceptance of further merchandise for beyond the Russian frontier. This decision is not only blocking through traffic to Russia, but also the normal exports of Swedish industry. The trouble is mainly due to the inadequate facilities for unloading at the small Swedish frontier station of Karungi. Goods are now transported by horses to the Russian line, but this traffic is said to be imperfectly organised, although there is no scarcity of horses and carts. Quite recently a start has been made in laying down new lines of rails and in increasing the railway staff, but early in the year 500 goods trucks were waiting to be unloaded. As soon as this has been done, "freight for Karungi and beyond the frontier will again be accepted by the Swedish railways. The preference, however, will be given to Swedish industrial products and merchandise; transit traffic is to be treated as of secondary consideration.

Notices as to Export of Medicines.

Italy has prohibited the exportation of oils and fats, palm oil, ammonia, and salicylic acid.

The Dutch Ministry for Commerce, Industry, and Agriculture has recently published a complete list of the articles the export of which from Holland is prohibited. These include salt, lubricating-oils, medical and surgical dressings and raw material for their manufacture, acetone, ethers, sugar, Chili saltpetre, gunpowder, surgical instruments, liquid fuel, sulphuric acid, cotton, linseed, rapeseed, colzaed, and other oil-seeds (except caraway, mustard, and poppy-seed), rice-meal, linseed-meal, rapeseed-meal, earthnut-meal, cottonseed-meal, and cakes of these seed-meals, acetate of lime, crude cocoa-butter, calcium nitrate, suet and tallow and mixtures of these fats, other edible fats, tanning-extracts, pyrites, gas oil, benzine, and ammonium sulphate.

The Department has also published a regulation agreed to between the Dutch and British Governments to make easier the export from England to Holland of chemicals and medicines the exportation of which from England is prohibited. The British Government is willing to give exemption from the export prohibition for medicines and chemicals which are ordered through the Government Medical Department in Amsterdam. Wholesale dealers can also receive orders from pharmacists, certain physicians, institutions, druggists, etc., and transfer them to the Government Department, from which they will receive the articles for delivery to those who ordered them. Such goods may not be re-exported except to the Dutch Colonies, and only by special permission.

Belgian Doctors' and Pharmacists' Relief Fund.

The subscriptions from pharmacists to the Fund received during the week ended February 9 amounted to 186*l.* In the Durham and Newcastle districts a meeting will be held at the College of Medicine, Newcastle, on February 17, at 4 p.m., when an address will be given by Professor Jacobs, of Brussels. All doctors and pharmacists are invited to attend the meeting, at which it is proposed to form a local Committee. An important Committee has been formed in Manchester for collecting funds, and Mr. Tom Miller, 5 Yarborough Street, Whalley Range, is acting as one of the Secretaries. He will be glad to receive subscriptions from pharmacists. The subscriptions received are as follows: Cardiff Pharmacists' Association, 25*l.*; "Script" Shilling Fund, 20*l.* 6*s.* 6*d.*; Public Pharmacists' and Dispensers' Association, 2*l.* 10*s.*; Thames Valley Pharmacists' Association, 2*l.* 10*s.*; Western Pharmacists' Association of London, 120*l.*; Lincoln Chemists' Association, 3*l.* 3*s.*;

A. Hagon, 1*l.* 1*s.*; R. T. Clarke, 10*s.* 6*d.*; Miss E. Hardwicke, 10*s.*; Miss M. Gibson, 5*s.*; R. J. Perkin, 5*s.*; A. Hodgson, 1*l.* 1*s.*

Belgian Refugees.

Two of our correspondents have intimated during the past week that the *C. & D.* Supplement announcement has secured situations for them, while another has asked to be put in touch with the firm requiring an expert in pocket flash-lamp batteries. We had among our callers last week Monsieur and Madame Bernheim, from Brussels. Mr. Bernheim was for twelve years previous to the German occupation of Brussels attached to the Pharmacie Delacre, one of the best-known businesses in Belgium. He has therefore a good all-round knowledge of the wholesale drug and pharmaceutical-specialty trade, and is quite *au courant* with everything appertaining to pharmacy. Two students of pharmacy—one in Leeds, and the other in Rotherfield—are anxious to have some suitable employment in chemical-industry or pharmacy. A young refugee released from military service has written offering his services as warehouseman or servant: he is a chauffeur-mechanic, and evidently an all-round useful man. We have mentioned his name to a wholesale house in need of laboratory porters and packers, their staff being depleted owing to the call of Kitchener. The Women's Emergency Committee have sent along to us Mr. A. Sloot, who formerly represented an American toilet-specialty firm in Brussels. He speaks English, French, Flemish, and German. Another caller was Mr. Paul Humbolt, also of Brussels, who has had a long experience of the wholesale and export trade in drugs and chemicals. He speaks six languages—French, Dutch, Spanish, German, Italian, and English—and would be a useful foreign correspondent or foreign representative for a manufacturing or wholesale house. A Cardiff firm of manufacturing-chemists, specialising in hairdressers' specialities, offers to negotiate with likely Belgians with the necessary manufacturing experience, so we have put them in touch with two refugees. Further particulars will be found in the advertisement columns of *THE CHEMIST AND DRUGGIST* Supplement.

With a view to assisting Belgian manufacturers and merchants to give preference to trade with the Allies after the war, some influential Belgian business men have organised an office called "For Commerce with the Allied Nations," the temporary address of which is c/o London Chamber of Commerce, 97 Cannon Street, London, E.C. The aim of this organisation is to secure for well recommended and fully qualified Belgians the agency in Belgium of British firms, and to answer inquiries from Belgian firms who are desirous of replacing foreign goods by their English equivalents. Trade papers, catalogues, etc., will be filed, in order to give all possible assistance to inquirers. Manufacturers of chemicals and pharmaceutical products, toilet specialities, machinery, etc., will realise that it is to their own interest to support this movement by forwarding any literature which may help to ensure a share of Belgian business in the future.

Miscellaneous.

The employés of Potter & Clarke, Ltd., have this week sent a chequo for 10*l.* 5*s.* to the Belgian Refugees' Committee.

The Trinidad Pharmacy, carried on as Alex. S. Laing & Co.'s Successors, is in liquidation, the owner being a German. A correspondent tells us that the Colony needs a drug-business owned by an English or Scottish chemist or company. We observe that the stock of Laing's pharmacy was sold by auction last month.

WOMEN AS PHARMACISTS.—A correspondent of "The Times" of February 8, writing on the subject of women replacing men in various branches of employment during the present crisis, states that there is an increased demand for women dentists and pharmacists. Attention is directed to the fact that there are several qualified women engaged in teaching pharmacy and conducting their own pharmacies, both in London and the provinces.

Eosolent Compounds, Ltd., Eosolent Buildings, Elthorne Road, London, N., have presented supplies of the Eosolent compound, powder, and soap to the Admiralty and the War Office, also to the Red Cross Society. These articles have been gratefully acknowledged and distributed. Mr. H. C. Dodson, managing director of the company, has shown us a number of letters from men at the Front who have found Eosolent Compound of service.

Mr. Elmer R. Murphy, representative of an American chemical-supplies house, relates his experience in "System" of a business journey into Germany in September. The following interesting statement is made:

In Germany the factory that is working to the extent of 20 per cent. of its capacity is fortunate indeed. I visited the most important chemical-plants of the Empire—at

Düsseldorf, Cologne, Munich, Berlin, Hamburg, and other cities—and I found that only one out of five are actually working. The rest are shut down for lack of men, lack of coal, and lack of shipping facilities.

CONGESTION IN BRITISH PORTS.—The President of the Board of Trade has appointed an Advisory Committee, consisting of members nominated by the authorities of some of the principal docks in Great Britain, to consider and recommend the adoption by the various dock authorities concerned, either separately or in co-operation, of such measures as appear best calculated to remove or diminish the congestion in the docks and to deal with the traffic of the ports in the public interest in the most expeditious and advantageous manner possible. Any communications on the subject should be addressed to the Secretary of the Committee at the Board of Trade, 7 Whitehall Gardens, London, S.W.

POSITION OF MEDICAL SERVICE.—Dr. Norman Walker, Convenor of the Scottish Medical Service Emergency Committee, in an address on "The Medical Profession and the War" given at a meeting of medical practitioners and senior students at Edinburgh on February 8, explained the formation and work of the Committee, and spoke of the serious dislocation of practice in the country. The dislocation had increased and was still increasing, and if they were to avoid a serious breakdown in the medical service in Scotland they must realise the situation. More demands would be made upon them, and the supplies would have to be more carefully husbanded if they were to meet the demand. Over one-sixth of the medical profession are already serving—nearly 7,000 out of a total of 37,000—and more are required.

This photograph was taken by Mr. J. W. Martin, chemist and druggist, Brockenhurst (in the New Forest). The

Africa arrived by forced marches and turned the tide in our favour, and the Germans beat a retreat, with the loss of white officers and a lot of their black troops and auxiliaries. We had only two blacks killed. We are near the Congo border here, and a strong force of Belgians came to our help. I had pleasure in giving hospitality to some twenty-five officers, who were accompanied by a splendidly-equipped force of over 500 well-armed and disciplined troops."

Second-Lieutenant W. H. Hedges, South Midland Field Company, Royal Engineers, who is now in Flanders, is the only son of Mr. William Ross Hedges, chemist and druggist, the present head of Hedges (Chemists), Ltd., Birmingham, and a grandson of the founder of the business, Mr. William Ross Hedges, chemist and druggist, who has been in business since the early 'fifties. Second-Lieutenant Hedges, in a letter to Birmingham, says:

"I am writing from within ten miles of the firing-line, and the roar of the guns, which has been going on all day, has died down a little to-night. I am sleeping in an old Flemish windmill, on the stone floor, but I have my sleeping-bag, and sleep like a top, although an extra heavy volley shakes the place now and again. This place was in the possession of the Germans a few weeks back. The good lady who lives here was imprisoned in her own room for two days without food, when our troops stormed the position, and the beggars ran like rabbits. The funny thing was they had some ducks, which they had stolen, cooking, and our fellows came up just at the right moment for them. We are all in splendid spirits and getting any amount of fun out of it all."

Second-Lieutenant Hedges is a prominent Midland boxer, being amateur heavyweight champion of that area.

News from Austria and Germany.

THE NEW PRUSSIAN MINISTER OF WAR. Lieutenant-General Wild von Hohenborn, successor of von Falkenhayn, is descended from Dr. Wild, an apotheker of Cassel.

COMMANDERED CHEMICALS. Chili saltpetre, soda-lime, potassium and ammonium nitrates, nitric acid, turpentine, camphor, and glycerin may only be sold in Germany when permission is given by the Kriegschemikalien Aktiengesellschaft. Persons desiring any of these chemicals are required to make definite application, stating the purpose for which the chemicals are needed.

RUSSIANS IN HUNGARY.—According to a letter of a pharmacist living in that part of Hungary which has been invaded by the Russians, the behaviour of the invaders was exemplary. Russian customers were all polite, and paid for everything they purchased, which must have considerably astonished the Hungarian pharmacist accustomed to judge the world by the standard of German "kultur."

PROFESSOR H. GROSSMANN. Berlin, has communicated a long article to "Chemiker Zeitung" on "British Chemical-Industry and the War." He deals with the measures that have been taken to foster the chemical-industry in Britain, and strongly recommends to German industrialists a profound study of the statistics regarding the exportation of chemical-products from Germany and Austria in comparison with those of Britain, as published by the Intelligence Department of the Board of Trade.

INSECT PESTS.—The discussion on the use of insecticides still continues in the "Pharm. Zeitung." Ether sprinkled in a bed is stated to be effectual in protecting the occupant against fleas and lice. Soldiers are instructed to carry naphthalin with them, and sprinkle a little near their neck to protect them from insect-bites and to ward off spinal meningitis. Of essential oils, the best insecticides are anise and fennel, diluted with 30 to 40 parts of absolute alcohol. (See *C. & D.*, January 23, p. 35.)

EXPORT PROHIBITION OF POTASSIUM SALTS.—The "Berliner Tageblatt" states that the Imperial Chancellor has announced that the export from Germany and through transit of potassium salts and products, as well as tin oxide and salts, are forbidden. The Potash Syndicate are trying to get a modification of this order, because the industry has suffered a considerable decline, although in more recent months the exports to the United States and other neutral countries *via* Rotterdam and Bremen have improved.

NITRIC ACID. is getting so scarce in Germany that renewed attention has been called to the way of making it from the air, which Professor Witt prophesied at the beginning of the war would make good the shortage of nitrate from Chile. It has not so far, and now Professor Ostwald states that the process devised by Dr. E. Bauer and himself has stood the test of practical application on a large scale for six years. One works in Westphalia is annually producing, in round figures, 500,000 kilos (500 tons) of ammonium nitrate from nitric acid, which is yielded by the combustion of ammonia. The amount is apparently insufficient for war-purposes.



group of coolies comprises men attached to Lady Hardinge's Hospital for Wounded Indians, situated there.

Personalia.

Sergeant George Cowie, chemist and druggist, 3rd London General Hospital, R.A.M.C. (T.), has been promoted to the rank of staff-sergeant.

"The Call," a patriotic recitation which was written by Mr. Richard C. Wren, F.L.S., has brought in up to date £1,000 for the Belgian Refugees' Fund.

The Rev. Robert Stewart Wright, brother of Mr. G. Victor Wright, chemist and druggist, Edinburgh, who has been a missionary in Central Africa for the greater part of twenty-five years, writing from Kambole, Abercorn, Northern Rhodesia, to a friend in Gateshead, says: "At Kambole here we are only some four hours from Tananyika, and as this lake is in the undisputed possession of the Germans, we are liable to a raid at any time. Our mission-boat and two steamers were lying on the shore, all unsuited, when, a fortnight ago, the enemy's gunboat came along and blew them to pieces. What insensate work! At the outbreak of the war the German Commandant sent word he had armed crowds of ex-slavers and raiders, who would kill every white person they met, possibly you may have seen Abercorn was attacked, and that our tiny force there put up a good defence. For five days the siege lasted, and just when things were looking very serious, providentially reinforcements from South

English and Welsh News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Brevities.

Mr. Tom Mallinson, nurseryman, seedsman, and florist, 58 North Street, Keighley (Yorks), has applied for an agri-horticultural poisons licence.

The Surveyor's Committee of Royton District Council has decided to require Newton, Ltd., chemists, Shaw Road, to remove a sky-sign which has been erected on their premises contrary to the provisions of the Public Health Acts Amendment Act, 1907.

Seven deaths by poisoning have been reported since our last issue, four of them being suicidal cases. The poisons involved were disinfectant-solution, laudanum, lead, mercuric chloride, morphine, permanganate of potassium, and two unknown poisons.

At Cruft's Dog Show, being held in London this week, "Molly of Dover" won two first prizes and her championship certificate in the black and White Newfoundland class. "Molly" belongs to Mrs. G. F. Forster, wife of the popular pharmacist in Castle Street, Dover.

The hearing took place at the Patent Office on February 11 of applications for the suspension or for licences to use Teufel's patent 14,286/05 for the "improved manufacture of elastic bandages without rubber threads." The applicants were Mr. E. Beevor and Dr. Jaeger's Woollen System Co., Ltd., and A. W. Wood & Co. The patent, which belongs to an alien enemy, covers the use of a method of weaving bandages in the warp with threads having respectively right and left hand twists, and an endless weft-thread forming a firm closed selvedge and then craping the bandage.

Select Committee on Patent Medicines.

The Representative Body of the British Medical Association is to be recommended to place on record its satisfaction with the recommendations of the Select Committee on Patent Medicines, and to instruct the Council as soon as it considers the time opportune to take all necessary steps to press for legislation on the lines of the Report.

Brewster Sessions.

The following have been granted Magistrates' certificates for wine-licences in respect of the addresses mentioned :

Mr. T. Griffith Hughes, chemist and druggist, Ebenezer, Carnarvonshire ("off" wine-licence).

Milburns, Ltd., chemists, 16 Holmende, Sunderland (medicated-wine licence). It was stated that the firm held a wine-licence for their former premises at 215 High Street.

Mr. F. F. Blunt, 46 Abington Square; Mr. J. L. S. Hall, 70 St. James's Road; and Mr. E. Y. Stuckey, chemist and druggist, 6 Regent Square, Northampton (medicated-wine licences).

The medicated-wine licence held by Mr. J. F. Wood, chemist and druggist, Barnsley, has been transferred to Mr. G. S. Goodsworth.

The wine-licence for the shop at 170 Astley Street, Dukinfield, has been transferred from Mr. J. F. Miller, chemist and druggist, to Mr. A. L. Crabtree, Ashton.

The following have had their applications refused :

Mr. F. Harrison, Ferry Hill, co. Durham.

Mr. John Finlay Harper Banner, chemist and druggist, Darlington Road, Ferryhill, co. Durham.

Mr. J. W. Watkinson, 716 Bolton Road, Pendlebury (Lancs.).

Mr. Fred. Gartside, chemist and druggist, Bamber Bridge, Lancs.

Mr. Job Preston, chemist and druggist, Barker's Pool, Sheffield, has been granted a licence to sell spirit of wine, of not less than 43 degrees overproof, at 21 Holly Lane.

At the Halifax Licensing Sessions last week the Chief Constable drew the attention of the Justices to the fact that during Christmas time several purchases of wines were made from local chemists, and the report of the borough analyst in regard to these was that they had no claim to be designated as "medicated wines." He (the Chief Constable) understood the licences were granted to

the chemists for the sale of medicated wines only. The Chairman said the fact that the chemists had apparently not strictly adhered to their undertaking required some explanation. All licences were renewed with the exception of those of three chemists, the renewal of which was postponed for consideration at the adjourned Licensing Sessions in March.

Poor-law Dispensers.

The National Poor-law Officers' Association have appointed a Special Sub-Committee to prepare and submit evidence on behalf of the officers to the Departmental Committee of the Local Government Board now considering conditions of appointment, tenure of office, etc. As this will be the last opportunity for placing any hardship before the Local Government Board, steps should immediately be taken to forward particulars to this Committee, one of whose members, Mr. Tom Percival, Clerk to the Tynemouth Board of Guardians, is well informed on the position of the Poor-law pharmacist, and, we are sure, would give any member sympathetic consideration.

Contracts for Drugs, etc.

The undermentioned contracts for drugs, etc., have been concluded :

Alford (Lincs) Urban Council.—Mr. G. Green appointed chemist for six months.

Metropolitan Water Board.—E. Cook & Co., Ltd., for soft soap (33*l.* 16*s.* 9*d.*); Spenser, Chapman & Messel, Ltd., for sulphate of copper (270*l.*).

St. Pancras Borough Council.—Savannah Chemical Co., Ltd., for soluble creosote or disinfectant-fluid (7*d.* per gal.); Sanitas Co., Ltd., for disinfectant pine-fluid (9*d.* per gal.) and disinfectant pine-blocks (19*s.* 3*d.* per cwt.); Adcocks, Ltd., for carbolic-powder (2*s.* 5*d.* per ewt.).

Lewisham Guardians have been recommended to extend the existing contracts for waterproof sheeting, drugs, surgical appliances, dressings, and surgical sundries and instruments until June 30, 1915. Also to continue to the same date the contracts for soap, subject to certain increases in the prices of specified items.

Southwark Guardians have received a communication from Corby, Stacey & Co., Ltd., replying to their advertisement inviting tenders for the supply of drugs, etc., for twelve months, stating that they are unable to quote prices for that period, but are in a position to do so for three months. Two tenders were received for the year—one for the whole of the supplies, and the other for a part. The Guardians have referred the matter to the Contracts Committee.

Jersey Jottings.

At the annual meeting of the Jersey Musical Association, held last week, Mr. P. A. Jean, chemist and druggist, Columberie Street, St. Helier, was elected Hon. Secretary, vacating the vice-presidency in order to take up that position.

A most successful concert was given last week to the Soldiers' and Sailors' Club at St. Helier by some members of the commercial fraternity, who, hearing of the good work being done at that institution, organised an evening's entertainment. Among those who contributed to the programme was Mr. F. Weight, of S. Maw, Son & Sons, who received an ovation for "Mountain Lovers" and "I hear you calling me." A donation of 5*l.* 16*s.* 6*d.* was handed to the Treasurer at the close of the proceedings.

The Midlands.

A shop which was opened some time ago in Moseley Road, Birmingham, for the dispensing of Insurance prescriptions is now closed, but the original legend is still shown in the windows.

Mr. W. Bousfield gave a lantern-lecture illustrating the work of the Mission to Lepers on Wednesday, February 4, at the Smethwick Gospel Hall, Birmingham, to a large and interested audience.

Representations have been made by retailers in Birmingham to manufacturers and wholesalers in regard to the supply of retail quantities at wholesale prices. These representations have been sympathetically received.

Several small outbreaks of fire have occurred recently at the pharmacy of Mr. Freeman, chemist and druggist, 108 Icknield Street, Birmingham. A boy on the premises is stated to have admitted to the police that he had tried to start a fire in the place on five different occasions "in imitation of something he had seen at a picture-house."

A meeting of the Midland Section of the Society of Chemical Industry was held at the Birmingham University on February 8, when Messrs. Liverseege and Hawley read a paper on "Faced Pearl Barley." It was shown that both tale and rice powder are used for the purpose of facing, and that both would be considered adulterants, the intention being presumably to give a good appearance to an otherwise inferior article. Messrs. Sylvester, E. W. Mann, F. H. Alcock, and E. A. Johnsson took part in the discussion.

Colonel W. F. Wyley, F.C.S., of Wyley's, Ltd., Coventry, in his capacity as High Sheriff of Warwickshire, recently attended the Assizes at Warwick. Our



picture shows the carriage which he used on the occasion. The Colonel is standing between his footmen and his chaplain. Colonel Wyley, V.D., delivered an inspiring address to 900 officers and men of the Warwickshire Territorials who are leaving Coventry to complete their training. The Colonel has joined with a number of influential Warwickshire men to secure a good supply of revolvers for the Royal Warwicks about to proceed to the Front.

Liverpool.

Boots, Ltd., are opening new premises at 66 and 68 South Road, Waterloo, near Liverpool.

R. Sumner & Co., Ltd., wholesale druggists, have moved into their new premises at 40 Hanover Street.

Local chemists are experiencing great difficulty in obtaining leeches at present, none of the local wholesale houses having supplies. As much as 1s. each has been paid for them.

Panel chemists are greatly perturbed by the fact that they have received from the Insurance Committee only 33½ to 40 per cent. on account of their bills for the last quarter of 1914. It is expected that a "protest meeting" will be called.

Manchester.

Influenza is exceedingly prevalent in Manchester at present. Doctors are very busy, and chemists are having a run on the many cures advertised for this malady.

Miss E. Parry, buyer with Ayrton, Saunders & Co., Ltd., Liverpool, for the past eighteen years, has been engaged in a similar capacity by J. Quilliam & Co., Ltd., Canterbury Works, Victoria Bridge, Manchester.

Mr. G. S. Woolley, Ph.C., represented the Manchester Guardian Society for the Protection of Trade, of which he is President, at the funeral of Alderman Royle, a former Lord Mayor of Manchester, on February 4.

Since the opening of the Special Radium Treatment Department at the Manchester Infirmary a month ago, there have been numerous applications to test the healing power of the precious element. Up to the present eighty persons have undergone treatment, while well over a hundred names are on the waiting-list.

Cresoline Accident.

A child died at Southport on February 2 from shock following injuries resulting from burning by cresoline which had been placed in a vessel over a lamp for

vapourising. The lamp was overturned by the child, the contents flowing over its head and face. At the inquest the governess who was in charge of the child stated that she at once dressed the injuries on the head and face with olive oil, and then ran with him to the doctor. Despite every attention he died in a little over half an hour.

The foreman of the jury (Mr. Charles Hare, chemist and druggist) pointed out that witness had used the words cresoline and carbolic acid. The latter is distinct from cresoline. Witness said she was burning cresoline.

The Foreman: That is not carbolic acid.

The Deputy-Coroner: What is it?

The Foreman: It is a coal-tar product.

The Deputy-Coroner: But it is an acid?

The Foreman: It has acid proclivities, but not so dangerous as carbolic acid.

The Deputy-Coroner: It is very useful to have a chemist on the jury to correct the Coroner and Court.

The jury returned a verdict of accidental death, and exonerated the governess from blame; they were, however, of opinion that it was inadvisable that the lamp, as at present constituted, should be further used.

[We are informed that the lamp was *not* a Vapo-Cresoline lamp.]

A Dispenser's Mistake.

At the inquest on February 3, regarding the death of Mr. Walter F. Evans, who died in a nursing home at Burton-on-Trent from paralysis of respiration due to the injection of an overdose of eserine (C. & D., February 6, p. 36), Mr. Wilfrid Lean, Ph.C., manager of Francis Hallam, Ltd., chemists, who supplied the injection, identified the prescription brought to him on February 1, and stated that he was suspicious as to the quantity and telephoned to the doctor, but failed to get into communication with him. He was answered on the telephone by a nurse, and he asked that the doctor be informed that fifteen times the maximum dose had been ordered. This message had not been conveyed to the doctor. A member of the jury said that no blame attached to the chemist, and the Coroner remarked that the mistake was entirely that of the dispenser. We are informed by Mr. Lean that the nurse failed to convey the warning as to the overdose either to the doctor or the dispenser till the following day, and she was not called at the inquest to explain this. Mr. Lean also informs us that the dispenser made out the order in the form of a prescription signed by the doctor. The order was for nine grains of eserine sulphate in two drachms (10 minims = 0.75 grain).

From Various Courts.

Arthur Alfred Henry Bennett (54) was on February 8, at Bow Street Court, again remanded for a week, when he will be committed for trial at the Old Bailey for perjury and forging the endorsement on a promissory note.

Mr. A. Proctor Atkinson was complimented by Mr. Bros, the Clerkenwell Magistrate, who said to him when as a local Treasurer of the Soldiers' and Sailors' Families' Association, he had given evidence in a case of attempted fraud, "If everyone made the thorough inquiries you have made, it would save them being perpetually defrauded."

A young woman, named Dolly Jones, was bound over by the Merthyr Tydfil Magistrates on a charge of endeavouring to obtain charitable contributions by fraudulent pretences. Councillor H. M. Lloyd, chemist and druggist, Chairman of the local National Relief Fund, stated that the girl called at his pharmacy and solicited contributions to the fund, and her replies to his questions proving unsatisfactory, he placed the matter in the hands of the police.

At the Hants Assizes on February 5, Leonard Johnston, manager of the Southampton Corporation tramways, was sentenced to sixteen months' imprisonment for unlawfully procuring and supplying drugs to a woman with whom he had been intimate, knowing that the same were intended to be used with intent. He stated in evidence on his own behalf that he went to a Southampton chemist and obtained medicine and powders. The chemist told him he sold a thousand bottles a year. He sent the things and a

letter to the woman. He had told a police officer about going to the chemist and getting medicine, and the officer said, "Oh, if that's all, you have nothing to fear." Among the witnesses was Mr. W. Martin, Ph.C., who denied that the prisoner visited his shop, and he added under cross-examination that under no conditions would he supply things for improper purposes.

Irish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Brevities.

The committee of management of the Derry District Lunatic Asylum have advertised for tenders for medicines, etc., to be received by February 19.

At the annual meeting of Carrickfergus Urban District Council last week Mr. Robert Cambridge, J.P., was unanimously co-opted a member.

Mr. Joseph Richardson, registered druggist, 17 Cromac Street, Belfast, retired from business last week, his stock and fittings being sold at his request by public auction.

The Local Government Board point out that the expenditure on drugs, etc., at the Annascaul dispensary of the Dingle Union (28/- for 152 patients) seems too high. Dr. Kane, the medical officer, states that the number of patients treated was 252, not 152.

Lady Baxter was last week appointed a Vice-President of the Coleraine Branch of the Irish Women's National Health Association at the annual meeting presided over by Sir Wm. Baxter, D.L., ex-President of the Pharmaceutical Society of Ireland.

The Board of Trade has established in Ireland a Trade Board for the trade in boxes made of paper, cardboard, chip, or similar material. The Board of Trade has appointed three members, the box-trade five members, and the workers in the box-trade five members.

In the Northern Police Court, Dublin, on February 9, two Capel Street traders were summoned by the Dublin Corporation for selling explosives known as "Slapbangs," made of potassium chlorate with sulphur. Defendants have undertaken to give up the sale of the "Slapbangs." The cases were dismissed with a caution.

Lieut. G. O. Nightingale, son of Mr. H. Nightingale, R.D., 2 Upper Clanbrassil Street, Dublin, has obtained a provisional patent (24602/14) for a wristlet-watch guard which has for its object the prevention of reflections which might betray the wearer in warfare, and also the protection of the watch from accidental breakage.

Scottish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Brevities.

Within the past few months salicin has been more frequently prescribed than formerly. This is interesting in view of the remarks in the *C. & D.*

The aerated-water section of business has received a "brush up" owing to the influenza epidemic. Chemists are selling more at present than for many months.

A company of over one hundred special constables has been commissioned by the Chief Constable of Stirling. Among them are three "knights of the pestle"—i.e., Mr. John H. Fyfe, chemist; Mr. John A. Hogg, chemist; and Mr. John Skinner, chemist.

Scottish wholesale houses deserve to be complimented (writes a contributor) upon the manner in which they have executed orders since war was declared. Very few are the "out of stock" notices on any invoice, and the despatch of goods has been almost as good as in normal times. These facts, coupled with the normal monthly issue of price-lists, and the usual courteous attention, are all the more pleasing in view of the fact that enormous numbers of men have joined the Colours from the wholesale.

Aberdeen and the North.

In response to a local appeal for comforts and necessities for Belgian soldiers Mr. George Stephen, chemist and druggist, Huntly, has sent a case of honey.

Professor Cash, who was granted leave of absence in December, has now resumed the work of the Chair of Materia Medica in the University. His health is practically restored.

A list of doctors giving free medical attendance to dependents of soldiers and sailors has been published in the local Press. Five hundred and forty-four prescriptions have been issued to date.

The Scottish Board of Agriculture received a deputation of representatives of the Highland counties at Edinburgh on February 12, when matters relating to the revival and extension of the kelp-industry were discussed.

A labourer was killed and two others injured on February 8 through the breaking of a pulley while engaged in the erection of a water-tank at the works of John Miller & Co., chemical-manufacturers, Miller Street.

Edinburgh.

The Insurance Committee for the burgh is giving 50/- as prizes for essays by the senior pupils in the day schools on the preservation of health.

Dr. W. Inglis Clark, of Duncan, Flockhart & Co., contributes an interesting paper on the Photography of Snow and some of the problems to which it gives rise to the current issue of the "Scottish Ski Club Magazine."

Fifeshire.

A store occupied by Mr. J. B. McLaren, chemist, Kirkcaldy, was slightly damaged by fire on February 7. An adjoining store was gutted.

Mr. Peter Fenton, chemist, Cardenden, and Mr. R. S. Ramsay, chemist, Bowhill, have been elected members of the Executive of the recently formed Cardenden Ratepayers' Association.

Glasgow.

During the month of January 237 prescriptions, of the value of 9l. 11s. 2d., were dispensed by the chemists of Scotland for the Belgian refugees who are the guests of the Glasgow Corporation.

French News.

(From the "C. & D." Paris Correspondent.)

DR. JOHN JARVIS, of the Pharmacie Swann, rue Castiglione, Paris, who is acting with the British Expeditionary Force at the Front with No. 2 Motor Ambulance Convoy, has recently been in Paris on a few days' leave of absence. During that time he was installed as Worshipful Master of the Anglo-Saxon Lodge of Freemasons (Scottish Rites) at Paris on the occasion of the annual festival of the Lodge. The ceremony was performed by Worshipful Brother Denny, assisted by other Past Masters, and the dinner which followed was served at the headquarters of the Grande Loge de France, rue de Puteaux.

DR. JOHN JARVIS.

Paris, Dr. Jarvis is a registered pharmacist of Great Britain, having qualified in 1898. He is a doctor of pharmacy of the University of Paris, this degree being held by few pharmacists, and, as far as I am aware, by no other "Minor man."

ANTI-TYPHOID SERUM.—The discussion between the doctors and authorities, on the one hand, and the nursing staff of the Parisian hospitals, on the other, regarding the use of typhoid serum was closed before the war began. The nurses held a meeting at the Bourse du

Travail (Trade Union Hall) and passed resolutions protesting "not against the value of the serum," but against the principle of compulsory general inoculation without careful preliminary examination of the individual's state of health. It was stated that two nurses had died, that one had had her arm amputated, and a fourth lay in a dangerous state. The authorities state that the deaths were independent of the inoculations. The nursing staff protest that "they are not guinea-pigs"—a delicate allusion to the usual victims of vivisection and experimental surgery which is at least terse and comprehensible to the "man in the street." Eminent doctors who have been interviewed, protested against the exaggerated tone of the staff. Dr. Chantemesse flatly denied having ever said that one of the victims ought never to have been vaccinated. He added that all this agitation reminded him of what happened when vaccination against smallpox was introduced. A certain percentage of pathological incidents is inevitable, and it is these that arouse public prejudice. The authorities add that in the Nurses' School 1,055 inoculations took place, and after-effects were only noted in forty cases. The military authorities at Val de Grace, who have to deal with soldiers in Morocco and Algeria, give their yearly average of vaccinations as about 200,000 with an average of 1 per cent. of reactions.

Australasian News.

"The Chemist and Druggist" is supplied weekly to all the members of nine Chemists' Societies in Australia and New Zealand.

The Commonwealth.

NEW TARIFF.—The Prime Minister (Mr. Fisher), on December 3, 1914, laid on the table of the House of Representatives the schedule of duties to be collected under the new tariff, which came into operation at once. The new duties show increases on many items, but the duties on British goods have only been raised in a few cases. The duty on spirit has been increased 3s. per proof gal., which affects imported tinctures, and spirituous medicaments about 5s. or 6s. a gallon, reckoned as 90-per-cent. spirit.

SPIRIT DENATURANTS.—The manufacture of ether, chloroform, chloral, and chloral hydrate has evidently been considered by the Department of Trade and Customs. On November 27 a new order was issued providing for duty-free spirit for the manufacture of these preparations. Such spirit may be cleared without payment of duty, subject to denaturation to the satisfaction of the Collector of Customs. The methods of denaturation are to be:

The Manufacture of Ether.—(1) Mixing 10 gals. of ordinary ether with 100 gals. of rectified spirit. (2) The alcohol charged into the still along with sulphuric acid; at least 50 parts of concentrated sulphuric acid with the rectified spirit used in the charge.

Chloroform.—50 oz. chloroform to each 100 gals. of spirit, together with a few pounds of calcium hypochlorite, required for the process of manufacture.

Chloroform, Chloral, and Chloral Hydrate.—The addition of 0.05 per cent. of bone oil of a standard described in the order. Colour, brownish black. Boiling-point, titration for bases; pyrrol reaction, and behaviour with mercuric chloride.

Queensland.

TRADE WITH THE ENEMY.—At the Central Summons Court, Brisbane, on November 29, Charles Zoeller & Co., Ltd., were fined 100*l.* with costs, for trading with the enemy. For the prosecution it was stated that defendant firm had sent an order to a Stockholm company for a small quantity of surgical instruments from Grunbaum & Scheur, of Berlin, to the value of under 20*l.* For the defendant, counsel urged that the company had not wilfully broken the law.

Victoria.

PHARMACY BOARD.—At the meeting of the Pharmacy Board on December 9 an application was received from Mr. G. H. Simpson, about to become apprenticed to a registered Victorian chemist in business in one of the recently acquired British Possessions in the Pacific. He wished to know if the Board would accept that apprenticeship. Mr. Bailey said that the island is under the jurisdiction of the Commonwealth, and, as the seat of Government is in Melbourne, the Board would be justified in registering the indenture. A motion to this effect was carried.

Legal Reports.

Trade Law.

Lead in Cream of Tartar.—At Shifnal on February 5, Meyricks' Stores, Ltd., of Shifnal, were summoned for selling cream of tartar containing lead in excess of the limit recommended by Dr. MacFadden, of the Local Government Board, and they were ordered to pay 4*l.* 1s. costs.

Scottish Drug Accounts' Committee.—The First Division of the Court of Session, Edinburgh, on February 5, heard counsel in an appeal by the Scottish Insurance Commissioners against the judgment of Lord Anderson, restraining the Commissioners from proceeding with the Regulations as to the Drug Accounts Committee (*C.* & *D.*, February 6, p. 39). The Lord President intimated that a considered judgment would be given.

Alien Enemy as Plaintiff.—A Court of Appeal, consisting of the Master of the Rolls, Lord Justice Phillimore, and Mr. Justice Joyce, decided on February 10 that the appeal in the action by Action Gesellschaft für Anilin Fabrikation and the Mersey Chemical-works, Ltd., against Levinstein, Ltd., cannot be proceeded with during the war, as the first-named company is an alien enemy. The action was commenced in 1912, and it was in regard to dye patents. Judgment was given for Levinstein, Ltd., and for them it was argued that the appeal should go on in the name of the Mersey Chemical Co., Ltd.; but the Master of the Rolls said that that company were co-plaintiffs, for better or for worse, and the appeal must be suspended during the war.

Bedding's Pharmacy.—At the Wandsworth County Court, before Judge Harington, on February 8, May & Baker, Ltd., Battersea, sued H. C. Bedding, of High Road, Chiswick, for 4*l.* 5s. 5*s.*, for goods supplied to Bedding's Pharmacy, Richmond. In evidence, the defendant said: "This firm is known as Lloyds, Ltd., of Margate." His Honour: What firm? Defendant: Bedding's Pharmacy. His Honour: There is nothing about Lloyds, Ltd., on the note-heading. Defendant: I was only a manager of the Richmond branch. His Honour: But why do they call it Bedding's Pharmacy in Richmond and Lloyds, Ltd., at Margate? Who had the note-paper printed? Defendant: Lloyds, Ltd. His Honour gave judgment for plaintiffs for the amount claimed, and told defendant he ought to be able to get his money back from Lloyds, Ltd.

Glass Bottles from Germany.—In the King's Bench Division, before Mr. Justice Bailhache, on February 10, the Anglo-Foreign Manufacturing Co., Ltd., Paper Street, E.C., sued Edward H. Taylor, Welwyn, Herts, to recover 32*l.* 19s. 1*d.*, the price of goods. The plaintiffs' case was that the amount claimed was balance for goods delivered in 1914. Further orders were given in May of last year for glass bottles, which were made in Silesia, Germany, but, owing to the outbreak of war, the plaintiffs were unable to get the bottles without breaking the provisions of the Trading with the Enemy Act. The defendant admitted a debt of 20*l.*, but disputed the balance, and entered a counterclaim for the non-delivery of the goods. The glass bottles, it was stated, which were ordered last year were obtainable from many works in England. His Lordship gave judgment on the claim for the plaintiffs for 10*l.* 11s. 5*d.*, and on the counterclaim for the defendant for 13*l.* 17s. 1*d.*

Stolz Telephone Co. Flotation.—In the Chancery Division on February 5, Mr. Justice Eve delivered his judgment in the action by Mr. W. H. Adams, a shareholder in Stolz Telephone Co., Ltd., against the directors of the company for damages for misrepresentation in the prospectus of the company issued in 1913. His Lordship said the case was a deplorable one, and it was clear that all the parties in the trial had been the victims of Mr. Joseph Holt, a co-director and the promoter of the company, who was an unscrupulous individual, who, in accordance with well-established precedents, was conspicuous by his absence when the tale of his rascality came to be told. He thought there was nothing in the case to reflect on the integrity and honour of the defendants, Sir John Thrift, Lord Rosmead, Mr. R. A. Buddicom, and Dr. Fernandez Clarke; but the question was, although they may have believed that the prospectus was true, whether they had a reasonable belief in the truth of the prospectus? He did not think they tested the statements in the prospectus sufficiently, and had been blind to the fact that such a test ought to be applied. They forgot that it was to the interest of Mr. Holt to exaggerate and inflate the value of the old company which he was to sell, and trusted to that gentleman too much. There was no evidence that satisfied his Lordship judicially that the defendants had

reasonable ground for believing the prospectus to be true, and there would be judgment for the plaintiff against all the defendants for 300*l.*, with interest and costs.

What are Chemists' Fixtures?—On February 5, Lords Justices Buckley, Pickford, and Banks had before them, in the Court of Appeal, the appeal of the plaintiff in the action Horwick *v.* Symond, from a judgment of Mr. Justice Atkin, sitting at Manchester Assizes without a jury. The plaintiff, Philip Horwick, registered money-lender, Manchester, brought an action against E. D. Symond, Official Receiver and trustee of the estate in bankruptcy of Walter Stuart Mitchell, chemist and druggist, Egremont and Liscard, claiming possession of certain fixtures assigned to him by Mitchell under a bill of sale. Mr. Justice Atkin gave certain fixtures to the plaintiff, and others that he described as goods and chattels to the Official Receiver. In regard to others, of the value of about 18*l.*, he decided that their attachment to the freehold was so slight that they could not be declared fixtures, but were chattels. As the bill of sale included fixtures, he decided against the plaintiff in respect of these particular goods. Without calling upon counsel for the respondents, Lord Justice Buckley said the appeal failed. The matter at issue was a pure question of fact, and therefore the Court would be very loth to review the finding of the Judge. He did not say, however, that he should have come to the same conclusion had he tried the case. Lord Justice Pickford, in agreeing, said he did not say what view he should have taken at the trial, but the learned Judge was in a better position than that Court to decide what were essentially matters of fact. It was immaterial what he might have done had he tried the case. What the appellant had to do was to satisfy the Court that the learned Judge in the court below was wrong, and that had not been done. The appeal was therefore dismissed, with costs.

A Disputed Receipt.—In the City of London Court, before Mr. Assistant-Registrar E. B. Tattershall, on February 10, Barclay & Sons, Ltd., druggists' sundriesmen, 91 Farringdon Street, E.C., sued Harvey Davis & Co., chemists, Dawes Lane, Mill Hill, for 2*l.* 10*s.* 10*d.* for goods sold and delivered between January 23 and April 24, 1914. Mr. Davis admitted owing 4*s.* 2*d.* to the plaintiffs, which he said he had tendered to them before proceedings, and had been refused. As to the balance of the amount, he held receipts. For the plaintiffs it was said that the document upon which the defendant relied as a receipt for 28*s.*, the price of a chemical-balance, was not a receipt at all, but merely a note of the catalogue price of the balance initiated by the clerk giving the information. The defendant had had a bill sent him for 1*l.* 10*s.* in respect of the balance. The clerk whose initials appeared upon the document in question was now dead. The defendant, in his evidence, said on December 12, 1913, he called at the plaintiffs' place and gave an order for a chemical-balance. The plaintiffs' man said they had not one of the make required, and said he would give him (defendant) an order upon the makers, and he could call and get it. He called on the makers with the order, obtained the balance, and took it home. On the following morning he again called at the plaintiffs', ordered a few sundries, and paid for them. He then saw the clerk who gave him the order on the makers of the chemical-balance, and said, "What about paying for the balance?" The clerk told him he did not know whether there was any difference between the current price and the catalogue price of the balance, but he (defendant) had better pay the catalogue price. Upon looking this up it was found to be 28*s.*, which the plaintiffs' clerk took and signed on the bill he had already paid, "28*s.* S. C. R." Cross-examined, witness said the document was certainly regarded by him as a receipt. The Assistant-Registrar could not see why, if the plaintiffs' clerk gave the defendant the catalogue price of the chemical-balance simply as an inquiry, he (the clerk) should have initiated it. The plaintiffs were unfortunate: their clerk was dead, and the defendant swore he had paid the money. He could not disbelieve what the defendant had said about that document. As to the question of 4*s.* 2*d.*, the defendant had admitted that amount, and there would be judgment for the plaintiffs for that, but no order was made as to costs.

Cashing Cheques for Customers.—At the Birmingham County Court, before Judge Amphlett, on February 10, Alfred H. Partridge sought to recover from Cyril T. Thonger, chemist, University Drug-stores, Selly Oak, the sum of 19*l.* 14*s.* 9*d.* It appeared from the evidence that the plaintiff had employed a man as a bookkeeper, who stole from a drawer a number of cheques payable to plaintiff. The bookkeeper endorsed them, forging plaintiff's signature, and asked the defendant to cash them, which he did in *bona fides*. The cheques were passed through the bank account of the University Drug Co., Ltd., and not through defendant's personal account, so that he received no per-

sonal benefit from them. There was a long legal argument. In the course of counsel's statement for the defence it was mentioned that it is a well-known axiom in law that property cannot pass by larceny, and in this case there was a larceny of the cheques in dispute. The drawees of the cheques are, it was submitted, the only people who can sue upon them. His Honour reserved judgment.

High Court Cases.

Unless when otherwise stated these cases have been heard in the High Court of Justice, London.

"WOODWARD'S GRIPE-WATER."

In the Chancery Division, Mr. Justice Eve commenced on February 10 the hearing of an action by Wm. Woodward, Ltd., Chaucer Street, Nottingham, proprietors of the remedy known as "Woodward's Gripe-water," against Boulton Macro, Ltd., Crayford Mills, Stratford, E., claiming injunctions restraining defendants from infringing their trade-mark, "Gripe-water," and from selling any remedy, not being the plaintiffs', under the name of "Gripe-water," or passing off any such remedy as the plaintiffs' remedy; and asking for the delivery up of all literature or advertising matter infringing against the injunctions. The defence was that the words "Gripe-water" are common descriptive words in general use by the public, doctors, pharmaceutical and manufacturing chemists, and nurses, to indicate a remedy for the indisposition known as "gripes," and that the words had been in such use long before the year 1850 (when the plaintiffs claimed that the remedy was invented by Mr. Wm. Woodward). The defendants claimed the right to use the words as a *bona-fide* description of the character of their goods. The plaintiffs described their goods as "Woodward's Gripe-water," and not as "Gripe-water," and the defendants did not admit that their "gripe-water" is the same as "Woodward's Gripe-water." They further declared that the plaintiffs had stood by and allowed the public to use the words "gripe-water" without taking any steps to prevent it.

Mr. A. J. Walter, K.C., Mr. Maugham, K.C., and Mr. Sebastian appeared for the plaintiffs; and Mr. D. M. Kerly, K.C., and Mr. J. Riardo for the defendants.

Mr. Walter, in opening the case, said the plaintiffs' trade-mark was one of the first that was registered after registration became possible under the Act of 1875, and it was registered in January 1876, with a right of user of twenty-five years, so that it dated back to about 1850.

His Lordship: Is the trade-mark for spirit or alcohol?

Mr. Walter said it was for a remedy for an infantile disorder. He went on to say that this was the only known case where the word "water" was used in connection with a disease. They all knew of lavender-water, but "gripe-water" was the only case in which a trade-mark for a medicinal preparation was known as water with the name of the disease added. In 1850 Mr. Wm. Woodward invented the remedy for the disorder known as "gripes," and the company took over the business in 1903.

His Lordship: I suppose everyone has had experience of gripes?

Mr. Walter said it chiefly affected children.

His Lordship: Oh, I don't know! You eat a green apple and see what you get. (Laughter.)

Counsel went on to say that the plaintiffs' attention was drawn to the use of the words "gripe-water" in the "Pharmaceutical Journal Formulary," and they wrote to that paper, drawing attention to the fact that the words were their trade-mark. This was afterwards admitted by the editor in a note. Counsel also referred to a note that appeared in THE CHEMIST AND DRUGGIST on August 31, 1912, p. 51, on the same subject. In 1914 the plaintiffs learned that the defendants were selling a preparation which they called "gripe-water." They were issuing to the trade bottles in cartons bearing the words "Gripe-water," but neither bore the name of the maker. On the bottle there was left a space so that, in accordance with a practice that was unfortunately common in certain branches of the trade (though it was a thing that one was perfectly entitled to do), the chemist could put it up as his own preparation. It was also noticeable that the package bore no stamp, but the words "P. J. F." and a number. Three bottles of the mixture had been analysed, said counsel, and they were all different. Referring to the defence, he said that the defendants had brought forward a motion to rectify the register.

At this point the hearing was adjourned, and was resumed on Thursday.

Continuing his opening statement, Mr. Walter, referring to the suggestion that the plaintiffs had discontinued the use of their trade-mark "Gripe-water," said this was not a case where the rights had been lost because persons, without the owner's knowledge, had used the words in a sense hostile to the trade-mark, because the moment the owner's attention was drawn to it he at once protested, and in every case he heard of he had succeeded in obtaining recognition of his rights.

His Lordship: Is the alleged passing-off merely by description?

Mr. Walter said it was in the use of the expression, and there was the additional evidence that when one went into a chemist's shop and asked for gripe-water the goods of the plaintiffs were supplied. Counsel then read letters written by several firms of wholesale and manufacturing chemists, who made preparations which they had called gripe-water, in which without being asked they had dropped the use of that word and substituted others.

His Lordship: Most of those were in consequence of what appeared in THE CHEMIST AND DRUGGIST on July 31?

Mr. Walter said that was so.

Mr. John C. Umney, managing director of Wright, Layman & Umney, Ltd., was the first witness. He said he is Chairman of the Proprietary Articles Section of the London Chamber of Commerce, also of the chemical and drug and toilet trade sections, and had acted as adviser to the Government on various occasions.

Mr. Kerly: On policy? (Laughter.)

His Lordship: Not on this occasion.

Witness said he had been acquainted with the plaintiffs' preparation since 1887 or 1888, when he was first connected with the drug-trade.

Mr. Maugham: In your experience, what do the words "gripe-water" indicate in the mind of the public?

Witness: They indicate the preparation of Woodward. He explained that they did not indicate directly the nature of the preparation, because it was not a water, but a syrup.

Do you know of any other case in which the word "water" is combined with the name of the disease or illness?—I do not.

So far as chemical-preparations are concerned, do the words "gripe-water" indicate anything?—No. Witness went on to say that he first became connected with Woodward, Ltd., in 1912, when he was asked to advise them on technical matters, and for a time he superintended the purchase of their drugs. He knew Mr. Wm. Woodward, who died in September 1912. The business when he was first connected with it was carried on in an old-fashioned way entirely by distribution through the patent-medicine vendors, and it advertised to the public to a considerable extent, but not to the trade. They had no travellers, and he thought it would be very difficult to hear of infringements without them. Referring to an edition of "Pharmaceutical Formulas," published by the C. & D., in which the words "gripe-water" were used, he said that the editor, upon being communicated with, said he had another edition in the press, and that the complaint would be remedied. When the 1913 edition appeared there was a correction stating that the words "gripe-water" were the registered trade-mark of Woodward, and must not be used by anybody else. He mentioned that the plaintiffs inserted an advertisement in THE CHEMIST AND DRUGGIST later dealing with the trade-mark.

Counsel produced a copy of this advertisement, which was handed to his Lordship.

Proceeding, the witness said he first knew that the defendants were putting on the market a so-called "gripe-water" in the early part of 1914. He had not been long aware of the existence of the defendant company. Three bottles of this preparation were obtained and he caused analyses to be made. These showed three different results.

Cross-examined by Mr. Kerly, witness said he took an active part on the Parliamentary Committee to consider the whole question of naming proprietary articles, when the book "Secret Remedies" came in for a good deal of criticism.

Mr. Kerly: And particularly from you?

Witness: Yes.

Counsel: I am told that "Wright's Coal-tar Soap" is one of the articles sold by your firm? Witness: It is, fortunately.

Do you find among chemists a pretty general use of the words "gripe-water" to describe something which is not necessarily Woodward's?—No, I have never found it.

Imagine yourself a poor mother whose baby has the gripes. (Laughter.) What would you ask for?—I should ask for a mixture for gripes. I am confident that she would not ask for "gripe-water" if it had not been for Woodward.

Do you suggest that a purchaser will distinguish between "gripe-water" and "gripe" with something indicating a mixture?—Certainly.

Counsel asked a number of questions whether witness would object to the use of other words added to "gripe," and he said he would not so long as they described what they were, such as "tincture," "drink," etc. He drew witness's attention to the case of the word "water" in connection with ailments, as far back as 1812. In an Act of George III. he said there were to be found such phrases as "chilblain-water" and "eye-water."

Witness said the first warning the plaintiffs gave to the trade with regard to the use of the words "gripe-water" was THE CHEMIST AND DRUGGIST's advertisement of August 17, 1912.

At this point Mr. Austen Cartmell, on behalf of the Board of Trade, said it was not always accurate to hand in the "Trade-marks Journal" to show what the trade-mark was, because what appeared in the "Journal" as the trade-mark might be different from the mark that was actually registered. In this case there was a difference, because in the Register itself there was at the end of the trade-mark the word "or." That appeared to be part of a label that had been cut off, and indicated "gripe-water or" something else.

Mr. Kerly observed that this raised a very important question. It might make a material difference to the ease, and all the difference on the question of infringement.

After luncheon the cross-examination of Mr. Umney was resumed.

Mr. Kerly: When your company published its notice claiming "Gripe-water" as its trade-mark, did the notice occasion widespread concern among the chemists?

Witness said he did not know.

Counsel referred him to the note in THE CHEMIST AND DRUGGIST in 1912, which dealt with the water, and repeated the question.

Witness replied that it only showed the ignorance of the chemist with regard to the particular trade-mark. He added that he should not think that the plaintiffs' gripe-water had been advertised apart from the word "Woodward's." A Mr. Fitzhugh was the owner of the business for a certain number of years, but he had not seen a label of that time, so he did not know whether Mr. Fitzhugh's name appeared on it.

Counsel next referred to the pamphlet enclosed with each bottle of the plaintiffs' remedy, and suggested that throughout it was referred to as "Woodward's Gripe-water." The pamphlet consisted chiefly of testimonials, and he asked the witness if he could produce the originals of them.

Witness said he could not, but he had no doubt that they could be found.

Mr. Maugham said notice to produce was only given on Wednesday morning, and they had not yet been found.

Asked if he had seen the originals, witness said he could not say that he had; but he had seen others, and testimonials came in day by day "Woodward's," he said, was the word which identified the bottle.

Counsel: You mean it identifies it to you?—Yes.

Does it identify it to the public and the trade?—I suppose so.

The public only wants the bottle for its contents?—Yes. He said it was more customary to put the name on the bottle in former years than it was to-day.

Re-examined by Mr. Maugham, the witness said he knew of no firm of manufacturing-chemists who put up a preparation which they called gripe-water, or of any chemist who supplied gripe-water other than the plaintiffs'. So far as his knowledge went, the actual preparation in the plaintiffs' bottles always bore the word "Trade-mark." He had never heard of chilblain-water before this case.

Mr. Maugham: Or of eye-water except as a description of tears? (Laughter.)—I have never heard of it as tears.

Mr. William H. Woodward, the only son of the inventor of the remedy, now chairman and one of the joint managing directors of the plaintiff company, said he believed his father founded the business in 1851 or 1852. Except for a few years when the business belonged to Mr. Fitzhugh, it had always belonged to his father down to 1903, when the company was formed. Witness became a co-proprietor in 1911.

Mr. Sebastian: How long have you remembered the words "Gripe-water"?

Witness: Ever since my childhood, when I took it (Laughter.) He said that the proprietors had never overlooked any case of infringement that had been brought to their notice. There had never been any intention to abandon the use of the trade-mark by abandoning it or allowing others to use it.

Mr. Cartmell again referred to the presence of the word "or" in the application for the registration of the trade-mark.

Mr. Maugham said he was in a position to assure his Lordship that any mistake that had occurred was due to the Trade-marks Office, and not to his clients.

The witness was cross-examined by Mr. Kerly, and said that he was born in 1855.

At what period would you suppose that you were taking gripe-water? Not before that date. (Laughter.)

I agree that that is most improbable, but you said you remembered gripe-water from the time you took it. It could hardly be as early as that, could it?—Witness said no; but he knew it before 1865.

The gripe-water business, he continued, was sold to Mr. Fitzburgh in 1877, and repurchased by his father in 1884. He remembered his father's general chemist's shop, but he was not aware that he used to put up various drugs and sell them with his own name on the package. He put up gripe-water, which he called "Woodward's Gripe-water," though whenever customers bought it at the shop they generally asked for "gripe-water," and not "Woodward's Gripe-water." Witness said he had not seen a copy of THE CHEMIST AND DRUGGIST before August 1912.

Mr. Walters: My learned friend does not suggest that THE CHEMIST AND DRUGGIST is light reading.

Mr. Justice Eve: That depends upon what Court is sitting. (Laughter.)

Continuing, witness said it had not been found necessary to advertise in the trade journals. He could not say why the firm's advertisement appeared in THE CHEMIST AND DRUGGIST on August 17, 1912.

Mr. Kerly: The Trade-marks Act came into operation on August 11, 1905. Is it a mere accident that in the next issue of THE CHEMIST AND DRUGGIST, after the expiration of seven years from that date, you published the first warning to the trade?

Witness said it was probably not solely an accident.

Is it a fact that the owners of the trade-mark "Gripe-water" always regarded it as of doubtful validity?—No.

Witness said he was aware that other gripe-waters were being sold.

Mr. Kerly: Was it a sufficiently important water to cause you to put a special warning on your labels and wrappers?—Yes; particularly in connection with the export trade.

At this stage the hearing was adjourned until not before eleven o'clock on Friday morning.

Limited Companies.

New Companies Registered.

P.C. means Private Company and R.O. Registered Office.

NORTH WORCESTERSHIRE GLASS CO., LTD. (P.C.)—Capital 1,000*l.* The subscribers are E. A. Austin, S. de Saulles, and H. G. Stimson. R.O., Colonial Chambers, 13 Crutched Friars, E.C.

J. WHITE & CO., LTD. (P.C.)—Capital 12*l.*, in 1*l.* shares. Objects: To carry on the business of manufacturers of and dealers in trusses, abdominal and other belts, elastic stockings, etc. The first directors are T. H. White, W. J. Clarke, and C. Price. R.O., 98 Shaftesbury Avenue, London, W.

ROBIN & DE TREY CO., LTD. (P.C.)—Capital 16,000*l.*, in 1*l.* shares. Objects: To take over the business of a manufacturer of artificial teeth carried on by Dr. G. G. Robin at 36 Avenue des Ternes, Paris. Dr. G. G. Robin, A. de Trey, and G. H. Whiteley, sen., are the first directors.

ALFRED ADAMS & CO., LTD. (P.C.)—Capital 12,000*l.* Objects: To take over and carry on the business of A. J. Adams and A. J. Hitchen as Alfred Adams & Co., Reliance Works, Church Lane, West Bromwich, manufacturers of and dealers in glue, aniline dyes, etc. The first directors are A. J. Adams and A. J. Hitchen.

DR. TEMPLE CO., LTD. (P.C.)—Capital 500*l.*, in 1*l.* shares. Objects: To carry on the business of vendors in patent medicines, etc. The subscribers are H. Key, 4 Busby Road, Clarkston, Glasgow, chemist; Wm. Temple (Doctor of Medicine, U.S.A., Philadelphia), 57 West Campbell Street, Glasgow; and M. Trudel, clerk. H. Key and W. Temple are the first directors.

DR. MACKENZIE'S LABORATORIES, LTD. (P.C.)—Capital 3,000*l.*, in 1*l.* shares. Objects: To take over such part of the business of F. Tunbridge carried on at 32 Castle Street, Reading (the Mackenzie Catarrh-cure Smelling-bottle), and to carry on the business of wholesale, retail, and manufacturing chemists. The first directors are F. Tunbridge (chairman and managing director) and J. C. Gambles. R.O., 32 Castle Street, Reading.

Company News.

INTERNATIONAL SPONGE IMPORTERS, LTD.—The directors recommend a dividend of 4 per cent. upon the ordinary shares.

STRAND CHEMICAL CO., LTD.—Mr. J. C. Gardner, 24 Coleman Street, E.C., has been appointed receiver and manager.

T. & H. SMITH, LTD.—The annual meeting of the shareholders was held at Edinburgh on February 8. Mr. Donald Mackenzie presided, and, in moving the adoption of the report (see *C. & D.*, February 6, p. 40), remarked that, as it embraced only two months of the war, no important fluctuation in the volume of business done was reflected by the disturbance, though the company had had a fair share in the supplies required by mobilisation and Red Cross work both for Great Britain and its Allies. The progress of the company had been steady and well maintained throughout the year. The Chairman observed that a good deal of misconception prevailed in the public mind as to the relative importance of the dislocation caused by the shortage in supply of German-made chemicals. Many of the Continental synthetic remedies owed their demand in great measure to diligent, systematic propaganda, while products like those of the company are in constant and universal demand, based upon long official recognition and well-tried experience of their value. Mr. Dey, retiring director, was re-elected, as were also the auditors.

Gazette.

Partnerships Dissolved.

FRAZER, K., and PHILLIPS, G. C. J., in and around Eastbourne, medical practitioners, under the style of Frazer & Phillips.

GRAND, E., and SWINDLEHURST, M. W., Colonial House, Tooley Street, London, general brokers and merchants, agents, and promoters, under the styles of the Allied Trades Co-operation and the Vegetable Oils Products Co.

MCDONALD, JOHN, and MCDONALD, JAMES, Barking, Essex, surgeons and general medical practitioners, under the style of John & James McDonald.

SCOTT, S. N., and DONBAVAND, E. J. (who died on November 23, 1914), Plymstock, Devon, physicians and surgeons.

SCOTT-HEYLIGER, E. D., and BROWNIE, W. B., Blackburn, ophthalmic and aural surgeons and specialists, under the style of Scott-Heyliger & Brownie.

Bankruptcy Acts.

RECEIVING ORDER AND ADJUDICATION.

KEEVIL, D. F., The Knoll, Milton Road, Weston-super-Mare, and KEEVIL, A. G. The Woodlands, Nailsea, trading as Keevil, Webb, Fardon & Co. at 39 Redcliff Street, Bristol, manufacturing-chemists.

Sequestration.

STORIE, JAMES, chemist and druggist, Comrie, Perthshire. (Agents: Messrs. McCash & Hunter, solicitors, 3 Scott Street, Perth.)

Business Changes.

Authenticated notes are inserted without charge if not in the nature of advertisement, and subject to Editorial approval.

MR. D. MORGAN, chemist and druggist, Pencader, has purchased premises at Rhosnaen Street, Llandilo, where he intends to open a pharmacy.

MESRS. G. PINCHBECK & CO., manufacturing chemists, have removed from Gresham Road to new premises at 89, 91, 93, and 95 Stockton Street, Middlesbrough.

MESSES. HERBERT SMITH & CO., LTD., 9 Mincing Lane, London, E.C. announce that they have acquired the business of Messrs. Kaltenbach & Schmitz, importers, exporters, shipping and general commission merchants, of London, Liverpool, and Hull.

PROFESSOR KOBERT, of Rostock University, one of Germany's best-known chemists, is advocating a mixture of pig's-blood and rye-meal as a most nutritious form of bread for his countrymen. There is, of course, already a certain amount of pig's-blood in the composition of some Germans.—*Punch*.

Birth.

Authenticated notices are inserted without charge.

KERRUISH.—At 22 Prospect Terrace, Douglas, I.O.M., on February 8, the wife of H. Kerruish, chemist and druggist, of a son.

Deaths.

Authenticated notices are inserted without charge.

BRASSINGTON.—At 5 West Street, Horsham, on February 6, Mr. Herbert William Brassington, chemist and druggist, aged forty-seven. Mr. Brassington was a familiar figure in Horsham, where he had carried on business for upwards of twenty years and had a large circle of friends. He took a special interest in musical affairs, was choirmaster of the local Wesleyan Church, and an enthusiastic member of the Horsham Musical Society.

BREMNER.—At Aberdeen, on January 3, Mr. James Bremner, chemist and druggist, late of Oldmeldrum, aged sixty-two. Mr. Bremner served his apprenticeship with James Sim & Co., King Street, Aberdeen, and gained experience as an assistant in Belfast, and in Nairn, after which he carried on business successively at Lossiemouth and Torry, Aberdeen, before going to Oldmeldrum, where he successfully conducted a pharmacy for many years. He retired to Aberdeen two years ago.

CAMPBELL.—At 63 Boulevard, Hull, on January 27, Mr. Charles Campbell, chemist and druggist, formerly of Manchester, aged sixty-five.

HILLSTON.—At Lanark, on February 7, Mr. James Hillston, chemist and druggist, aged seventy-six. Mr. Hillston succeeded, along with his brother, Mr. D. P. Hillston, to the business established by their father, the late William Hillston, in 1838, with which he was connected for the long period of sixty-two years.

JENKINS.—At Merthyr Tydfil, recently, Maggie, wife of Mr. Thomas Jenkins, chemist and druggist, Merthyr Tydfil.

LINDOP.—At Prestatyn, North Wales, on February 1, Mr. Percy Lindop, apprentice with Mr. T. E. Hughes, chemist and druggist, High Street, Prestatyn, aged nineteen.

LLEWELYN.—At 83 Winchcombe Street, Cheltenham, on February 7, Mr. Ynyr Stewart Pendrel Llewelyn, chemist and druggist, aged seventy-one. Mr. Llewelyn, who was in business before August 1, 1868, settled in Cheltenham fifteen years ago, having previously been in business at Clevedon, Somerset. He had been in failing health for some time, but until last week, when he disposed of his business, he had carried it on without interruption. He is survived by a widow and one son.

MEIER.—At the Bromley Nursing Home, Palace Grove, on January 29, Mr. Caspar Gottlieb Meier, of Rodway Lodge, Bromley, Kent, and of Messrs. C. G. Meier & Co., 16 Philpot Lane, London, E.C., aged seventy-eight. The death of Mr. Meier recalls one of the most exciting periods in the history of bark and quinine, when in 1884 his firm suspended payment as the result of disastrous speculation in South American cinchona, which had lasted for the three previous years. This was mainly brought about by the flooding of the market from Ceylon, as a consequence of which the unit fell from about 2s. per lb. to 8d. The C. & D. of August 15, 1884, reported as follows:

Very great interest has been excited in the wholesale trade by the sensational events of the past ten days in regard to quinine. The largest producers in the world have failed, and with them has fallen the important house of C. G. Meier & Co., the firm which not long ago made an almost, but not quite, successful attempt to corner the bark-market. The inside history of the bark and quinine trade of the past two or three years, if it could be narrated by someone who has been actually concerned in it, would make a romantic chapter. There have been international and personal struggles; there have been diplomatic moves and combinations, this way and that way; bark-holders and quinine-holders have been pitted against each other, and warfare has occurred within each of the camps, England, France, Germany, Italy, the United States, Bolivia, Peru, Ceylon, and other countries have had rival and often opposing interests. Some very clever men have been pulling the wires, and hundreds of thousands of ounces of quinine have been shuttlecocked backwards and forwards between Europe and America. The result of all these mysterious movements is before us. Anyway, the public have no reason to complain of the present position.

Mr. Meier commenced business in 1865. His father was a Burgomaster of Bremen, and his uncle was Consul H. H. Meier, one of the founders of the Norddeutscher Lloyd Steamship Co. and also of the Bremen Bank.

PATTEN.—At Sunnyside, Alnwick, on February 3, Mr. Samuel Gardner Patten, chemist and druggist, aged sixty-

eight. Mr. Patten passed the Minor examination in 1868, and in that year entered into partnership with Dr. Wm. Davison, Alnwick, who was then carrying on the business which his father, William Davison, apothecary, had established in 1802. After the death of Dr. Davison, in 1890, Mr. Patten carried on the business as sole proprietor. He leaves a widow, three daughters, and two sons, the elder of whom, Mr. A. D. F. Patten, chemist and druggist, will continue the business.

STOTT.—At 9 Afton Terrace, Trinity, Edinburgh, on February 6, Mr. James Stott, of Pinkerton, Gibson & Co., wholesale druggists, Thistle Street Lane, Edinburgh, aged forty-nine. About three months ago Mr. Stott had a slight cerebral effusion, and, although it quickly cleared up, and there seemed at the beginning of last month to be every hope of his recovery and return to business, a distinct turn for the worse ensued, and he passed away peacefully early last Saturday morning. Mr. Stott was an Aberdonian, and served his apprenticeship to Souter & Shepherd, wholesale druggists, Aberdeen, after which he joined the staff of Clark & Pinkerton, Edinburgh, and when that firm was dissolved in 1888 he took a similar position on the staff of the firm Pinkerton, Gibson & Co., which was founded in the same year. When Mr. Adam Gibson died in August 1904 Mr. Stott was head of the counting-house, and had been assisting in the management of the business after the death of Mr. W. Pinkerton. He then became a partner in the business along with Mrs. Gibson, and under his management it has continued with success. Mr. Stott was a shrewd man of affairs, exceedingly conscientious and painstaking in his work, and well gifted in matters of trade finance. He was a fine golfer, and had been secretary and captain of the Edinburgh Pharmacy Golf Club, but latterly, to the regret of his friends, he had been seen little on the green. Mrs. Stott and three sons and one daughter survive him. The eldest son recently entered the Thistle Street Lane business as a pupil. The funeral took place at Warriston Cemetery on Tuesday, when many friends in the drug-trade attended.

TYRER.—Suddenly, on February 6, Mr. Peter Tyrer, of Cranfield Lodge, Bexley Heath, aged sixty-nine. Mr. Tyrer was well known to the British drug-trade as having been in business for many years as a manufacturer of foods and dietetic adjuncts, and among these were the Allinson bread and other specialities. This part of the business was incorporated in 1902 as the Natural Food Co., Ltd., and ten years later it was transferred to a larger company of the same name with a capital of 50,000L, Mr. Tyrer being the managing director, and his daughter secretary. He was a kindly and unassuming man with whom it was a pleasure to do business, and his sudden death is regretted by a large circle of friends. The funeral took place at Nunhead Cemetery on Thursday of this week.

VAUGHAN.—At Rhyl, on February 7, Mr. Edward Edwards Vaughan, chemist and druggist, aged fifty-six. Deceased had been in business in Vaughan Street, Rhyl, for some years, and was very popular, his family being looked upon as one of the founders of that health-resort. Mr. Vaughan, who qualified as a chemist in 1888, leaves a widow and two children. The funeral took place on February 9.

WRIGHT.—At Bona Vista, Caldene Avenue, Mytholmroyd, on January 31, Catherine Mary, wife of Mr. G. B. Wright, chemist and druggist, Hebden Bridge, aged forty-eight.

Killed in Action.

MATTHEWS.—Surgeon Vernon Lickford Matthews, of H.M.S. *Viknor* (an armed merchant liner), which is regarded by the Admiralty as lost, was the elder son of Mr. Thomas Averill Matthews, J.P., chemist and druggist, and of Mrs. Matthews, Golm Lodge, Ross, who have received a letter of sympathy from the Secretary of the Admiralty and the following telegram from Buckingham Palace:

The King and Queen deeply regret the loss you and the Navy have sustained by the reported death of your son in the service of his country. Their Majesties truly sympathise with you in your sorrow.

Surgeon Matthews was educated at Monmouth Grammar School, where he passed the Matriculation of the London University, and eventually he entered the London Hospital, remaining there until he qualified, and afterwards served

for over six months as house surgeon, while for a further six months he acted as aural house surgeon. He entered the Navy in May 1911, and in September won the gold medal at Haslar and the first prize for Tropical Medicines. He served on H.M.S. *Drake* for about eighteen months before joining the ill-fated *Viknor* in December. While mentally gifted, Surgeon Matthews was physically a splendid man, standing 6 ft. high, and he was of a charming disposition, winning friends wherever he went. "A splendid colleague to work with and a perfect gentleman," was what a distinguished surgeon wrote of him.

DRYSDALE.—In the trenches, near Kemmel, Belgium, on January 30, Adrian Castlelaw Drysdale, son of Mr. J. W. Drysdale, South Norwood, and Fish Street Hill, London, E.C., aged twenty-two. Private Drysdale was for two years in the Middlesex Yeomanry, and on the outbreak of war joined the Honourable Artillery Company, subsequently volunteering as one of a hundred special draft to the 1st Battalion, already at the Front. His death was practically instantaneous. He was buried at Kemmel near where he was shot, the service being conducted by the Acting-Chaplain in the presence of his commanding officer and comrades. Letters from his C.O. speak of his "keenness" and of his never flinching from any duties he was called upon to do, and those he did

as a man and a soldier. He was an old Whizgittian boy, a member of the South London Harriers, and Secretary of the South Norwood Swimming Club. He was associated with his father in business at Fish Street Hill, and was an occasional visitor on Change. A special service of the H.A.C. (3rd Battalion) was held on Sunday at St. Botolph's, Bishopsgate, when fitting reference was made to Private Drysdale's death by the Rector in his address to the men.

WATT.—Killed in a charge on the German trenches on December 14, Sergeant George Gordon Watt, Ph.C., of the 1st Battalion Gordon Highlanders, second son of Mr. P. Cheyne Watt, chemist and druggist, Hingham, Norfolk, aged thirty-five. Sergeant Watt passed the Minor examination in July 1903, and the Major in the January following. Subsequently he was one of the lecturers in the London College of Pharmacy, Clapham Road (Mr. Henry Wootton's), his subjects being chemistry and pharmacology, but during the past seven years he had been on the staff of Burroughs Wellcome & Co., and was head of the Foreign Literary Department before he went to the Front. He was for some years a member of the London Scottish, afterwards passing into the

National Reserve, and on the outbreak of the war he joined the Gordon Highlanders. Sergeant Watt had a large circle of friends in London pharmacy, and his death is widely regretted.

Wills.

MR. THOMAS BRYANT, F.R.C.S., 21 Fitzgeorge Avenue, West Kensington, London, W., who died on December 30, left estate of the gross value of 652*l.* 18*s.* 4*d.*, with net personality *nil*.

MR. BERNARD PITTS, F.R.C.S., Westminster Palace Hotel, London S.W., who died on December 13, left estate of the gross value of 16,104*l.* 10*s.* 11*d.*, with net personality 15,638*l.* 15*s.* 7*d.*

MR. WILLIAM FAWCETT SHIRTCRIPPE, 115 Broad Lane, Sheffield, a member of the local Pharmaceutical Committee, who died on December 18, left estate valued at 726*l.* 14*s.* 11*d.* gross, with net personality 632*l.* 11*s.* 3*d.*

MR. CHARLES OLIVER RAINER, chemist and druggist, 14 Lancaster Road, South Norwood, London, S.E., who died on October 16, left estate of the gross value of 1,166*l.* 10*s.* 11*d.*, of which 700*l.* 5*s.* 4*d.* is net personality.

MR. ROBERT EBENEZER BROWN, chemist and druggist, 9 Guildford Road, Brighton, who died on January 7, left estate valued at 4,128*l.* 7*s.* 2*d.* gross, with net personality 3,262*l.* 6*s.* 2*d.* Probate of his will has been granted to his son, Mr. W. A. Brown, of the same address, chemist, the sole executor.



MR. A. C. DRYSDALE.

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MR. THOS. EDMONDSON, pharmacist, has been elected President of the Penrith Tradesmen's Association.

MR. MONTAGUE ROBERT FRENCH, chemist and druggist, 95 North Street, Gosport, who died intestate and a bachelor on January 1, left estate of the gross value of 569*l.* 17*s.* of which 461*l.* 19*s.* 6*d.* is net personality. Letters of administration of his property have been granted to his father, Mr. Benjamin French.

MR. GEORGE STEPHEN BUTCHER, chemist and druggist, Aldwick, Rugby Road, Worthing, who died on November 25, left estate valued at 1,311*l.* 11*s.* gross, with net personality 474*l.* 12*s.* 5*d.* Probate of his will has been granted to his widow, Mrs. M. Butcher, and Mr. W. J. Butcher, physician and surgeon, son of the deceased.

MR. HUGH MONTGOMERY, Ph.C., Medical Hall, Callan, co. Kilkenny, who died on October 19 last, left personal estate in the United Kingdom valued at 1,905*l.* 12*s.* 2*d.*, of which 1,000*l.* is in England. Probate of his will has been granted to Mr. P. Pollard, Callan. The testator directed that his estate should be held upon trust for his children until the youngest is twenty-one years of age, and then he left his business as a chemist and his residence to his son Hugh, and the ultimate residue of his estate to his other children in equal shares.

MR. WILLIAM BEDDOME BRIDGETT, indigo-merchant, Oranmore, Briar Walk, Putney, S.W., and of 14 Mincing Lane, London, E.C., who died on November 28, left estate of the gross value of 38,041*l.* 8*s.* 10*d.*, of which the net personality has been sworn at 34,072*l.* 6*s.* Probate of his will has been granted to his widow, Mrs. E. R. Bridgett, and Sir Henry Paget Cooke, 11 Old Square, Lincoln's Inn, W.C. The testator left 500*l.*, his household and personal effects and consumable stores to his wife absolutely, and all other his property to her for life, with remainder to all of his children, whether by his first or second marriage, in equal shares.

MR. WILLIAM RANSOM, manufacturing pharmaceutical chemist, Fairfield House, Hitchin, who died on December 1, left estate valued for probate at 504,898*l.* 7*s.* 7*d.* gross, of which the net personality has been sworn at 467,134*l.* 9*s.* 3*d.* Probate of his will, with a codicil, has been granted to his son, Mr. Francis Ransom, The Chilterns, Hitchin, and his nephew, Mr. Theodore Ransom, Grove House, Hitchin. The bequests include 100*l.* to the Benevolent Fund of the Pharmaceutical Society of Great Britain, and 300*l.* to Alfred Latchmore, 150*l.* to Fred Pack, 50*l.* to David Day, employees of Wm. Ransom & Sons, Ltd. He left 10,000*l.* and three houses, 12, 13, and 14 Bancroft, Hitchin, to his daughter Theodora, and 50,000*l.* upon trust for her and her issue (his said daughter predeceased him); 10,000*l.*, two houses and piece of land in Hitchin, and a house at Wellington, Somerset, to his daughter Charlotte Lyndon, and 50,000*l.* upon trust for her and her issue; 350*l.* to Eliza Ann Abbott; 250*l.* to his nephew John Ransom Marsh; 50*l.* to each other nephew and niece of himself or his wife; 150*l.* to each grandchild; and the residue of his property to his son Francis Ransom absolutely.

Personalities.

Authenticated notes are inserted without charge if not in the nature of advertisement, and subject to Editorial approval.



MR. G. G. WATT.

MR. THOS. EDMONDSON, pharmacist, has been elected President of the Penrith Tradesmen's Association.

MR. ALFRED TENNANT, Ph.C., Frinton-on-Sea, has been elected Vice-Chairman of the local Tradesmen's Association.

MR. EVAN JONES, chemist and druggist, Llanelli, has been elected Chairman of the local Tradesmen's Association for 1915.

MR. W. J. GREEN, chemist and druggist, Trowbridge, has been elected a member of Council for the local Chamber of Commerce.

MR. C. H. DIXON, Ph.C., Westgate-on-Sea, has been elected a member of the Committee of the local Tradesmen's Association.

MR. T. H. JERVELL, managing director of Jervell & Co., Ltd., cod-liver oil exporters, has been appointed British Consul for Aalesund, Norway.

MR. E. J. DOBSON, chemist and druggist, Victoria Road, Deal, has been elected a member of the Committee of the Deal, Walmer, and District Chamber of Commerce.

MR. ISAAC T. LLOYD, chemist and druggist, 267 King's Road, Chelsea, London, S.W., has been elected Vice-Chairman of the Chelsea Traders' Association for the ensuing year.

MR. H. D. GEORGE, dispenser at the Poplar and Stepney Sick Asylum, has been appointed radiographer of the institution, with increase of salary commencing at 20*l.* a year.

Trade Notes.

FLESH-GLOVES.—Cuxson, Gerrard & Co., Ltd., Oldbury, figure in our advertisement-pages special lines in bath and flesh gloves. The prices are given also.

“T. M.”—T. Christy & Co., Old Swan Lane, London, E.C., call attention to their special dentifrice (“T. M.”) for smokers, and make some offers in connection with the supply of showcards and window-show material.

STUDENTS' BOOKS.—The Northern College of Pharmacy, 102 Burlington Street, Manchester, refer in an advertisement in this issue to five text-books published by the College, regarding which a special offer is made.

SICK-ROOM POTTERY.—A new form of feeding-cup, the “Bisto,” is shown in the advertisement of Bishop & Stonier, Ltd., Hanley. This company are makers of various kinds of bed-pans and urinals and other hospital and sick-room appliances.

“HYPO.” **CARTONS.**—Robinson & Sons, Ltd., box-makers, Chesterfield, show the way to increase the sale of hypo-sulphite of soda—by packing it in attractive cartons. Incidentally this acts as an advertisement of the whole photographic department of a business.

WINTER GOODS.—A photographic group of the winter specialities of The British Drug Houses, Ltd., Graham Street, City Road, London, N., is shown in the company's advertisement in this issue. The demand for malt and cod-liver oil preparations is exceptional in many parts of the country.

“ROYAL MINTS” is the name which Ayrton, Saunders & Co., Ltd., Liverpool, give to exceptionally strong peppermint tablets, for which there is a big demand from the Front. They are neatly put up in vest-pocket boxes to retail at 4½d. and 7½d. per box, and a showcard of a patriotic design is supplied to retailers.

RECORD OF CONTINUOUS SERVICE.—Sutley & Silverlock, Ltd., chemists' printers, Blackfriars Road, London, S.E., send us a printed record of the continuous services of forty employés, which vary from fifty-three to twenty-one years, with an average of thirty-one years. This is a record which, we think, will be hard to beat in businesses connected with the drug-trade.

“D. & CO.'S PAGE.”—The topical nature of the announcements in the advertisement of Parke, Davis & Co., Beauchamp Street, Regent Street, London, W., makes the page specially worth studying. Typhoid prophylaxis and water-purification are dealt with, and the information given should supply definite answers to the many inquiries which chemists receive on these points.

SALASPIN.—Thomas Kerfoot & Co., Bardsley Vale, Lancashire, manufacturing-chemists, are supplying a showcard (20 by 12 in.) for the purpose of advertising Salaspin. The showcard is quite striking, the wording, in white letters on a chocolate-coloured ground being: “The British medical equivalent for aspirin is Salaspin, the approved specific for headaches, rheumatism, colds, etc. 9d. per 25 tablets.” The name and address of the manufacturers are also given.

LIQUID PARAFFIN.—Another “nibble” at enemy trade is announced by the Silvertown Lubricants, Ltd., Minoco Wharf, West Silvertown, London, E. This is in regard to the production of medicinal paraffinum liquidum, for the supply of which this country has had to rely entirely on imports—mainly from enemy countries. The address to the trade which appears in the company's advertisement is an interesting and historic document, as it concerns the foundation in this country of an industry of immense importance. We are sure that the drug-trade can be relied upon to back up the efforts of the manufacturers.

STERILISING WATER.—It is some years since Dr. John C. Thresh, medical officer of health for Essex and one of this country's leading authorities on domestic water-supply, proved that water for drinking-purposes can be effectively sterilised by means of free chlorine generated from chlorinated lime. It seems fitting that Burroughs Wellcome & Co., who materialised Dr. Thresh's expeditious method of water-testing, should do the same for the sterilising-process. Their tabloid equipment consists of a bottle of chlorinated-lime tablets and one of sodium thiosulphate in a case, and a bottle of solloid potassium iodide and starch. A tabloid of chlorinated lime is sufficient to sterilise 10 gals. of water, unless it happen to be very foul. It is dissolved in a little of the water and added to the bulk; then a few ounces of the treated water is tested with the potassium iodide, and if iodine is not set free more chlorinated lime

has to be added; otherwise the sterilisation-process is completed and the water made potable by adding a thiosulphate tabloid to the 10 gals. It is obvious that the novelty is one that chemists should be able to sell to their khaki customers.

THE P.A.T.A. PROTECTED LIST for January contains the following additions:

Buffham Rezzmali Poudre, Toilet-powder, and Skin-food (two sizes); Lysol (Evans') (five sizes); Grossmith's Old Cottage Lavender-water (four sizes); Jif Headache-powders; Kerfoot's Salaspas Tablets (two sizes); Langdale's Cinnamon Smelling-bottle (two sizes); Louvain Preparations—Eau-de-Louvain (three sizes); Microbe (six sizes); Parke, Davis & Co.'s Olaxine; Piesse & Lubin's Eau-de-Louvain (three sizes); Semprolin Petroleum; Shirley's Anglopirin Tablets (three sizes); and Warriek's Iodine Zombs. Several articles have been altered in price during January, viz.: Aquapla; Bishop's Granular Preparations; Chesebrough Preparations; Grossmith's Specialities; John Bell, Hills & Lucas, Ltd.—Pathone (six sizes); Saneo Dental Powder; and Zimmermann's Lysol (four sizes). The following articles have been removed from the protected list: Wait-and-See Liver pills; Ashrona; Validol and Preparations; Yardley's Complexion Soaps; Unna & Eichhoff's Soaps; Nivea Preparations; and Carlsbad Sprudel Salt. The specialities of the following have also been removed: The Hygiene Co., Ltd.; Keepon, Ltd.; Givaudan, Lavirotte et Cie.; Dr. Boucard; H. Mack; M. C. Martin (Nun Cologne); J. & R. McCracken (Opp. Cologne); Zomatone Co.; E. Guttman (successors); C. S. Dent & Co.; G. Dralle; and Knoll & Co.

Trade-Marks.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see “The Chemist and Druggist Diary,” 1915, p. 435.

Objections to the registration of any of the undermentioned applications must be stated on Form T.M. No. 7 (obtainable at Money Order Offices for £1) and lodged with Mr. W. Temple Franks, Comptroller-General, Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned.

(From the “Trade-marks Journal,” January 20, 1915.)

“VITROGEN”; for preparations for aiding fermentation (42). By the Hordeum Products Co., 56 Stert Street, Abingdon. 364,388.

Label device, including words “BALDOCK'S YERBA MATÉ” and “ILEX BRAND” (“Ilex Brand” disclaimed); for a beverage preparation (42). By W. Baldock, 25 Copthall Avenue, E.C. 364,646.

“CITRAPHOL”; for a food ingredient (42). By Perry & Hope, Ltd., Forth and Clyde Chemical-works, Nitshill, Glasgow. 364,937.

“SPINET”; for goods (47) and for perfumery, etc. (48). By C. Thomas & Bros., Ltd., Broad Plain Soap-works, Bristol. 365,024/5.

“SHELL,” with picture of same; for soap (47 and 48). By J. Crosfield & Sons, Ltd., Bank Quay, Warrington. 365,180/1. (Associated.)

Picture of “Justice”; for perfumery, etc. (48). By Sydney Myer & Co., 278 Bishopsgate, E.C. 364,450.

“RED STAR INFANTRY FOOT-DRESSING” and star; for feet-preparations (48). By Thames Chemical Co., 109 Victoria Street, S.W. 364,707.

“CHLORAMINT”; for a teeth-preparation (48). By John-Bell Hills & Lucas, Ltd., “Oxford” Works, Tower-Bridge Road, S.E. 365,046.

Device of lady in evening-dress; for perfumery, etc. (48). By Howard & Co., 8 and 9 Aldermanbury Postern, E.C. 365,117.

“NONAQ”; for a toilet-preparation (48). By J. Radcliffe, 66 Victoria Street, S.W. 365,152.

Oval device, with white shield bearing letter “B” (“B” disclaimed); for brushes, combs, etc. (50). By Boot's Pure Drug Co., Ltd., 37 Station Street, Nottingham. 363,412. (Associated.)

“EMPIRE”; for varnishes, etc. (50). By Goodlass, Wall & Co., Ltd., 42 Seel Street, Liverpool. 363,583. (Associated.)

Foreign characters meaning “GOD OF RICHES”; for crucibles, etc. made of plumbago (50). By A. Smith, Ltd., Church Road, Battersea, S.W. 364,216.

“BANTAM”; for polishes, etc. (50). By Orsini Stuart, 41 Castle Street, Liverpool. 364,989.

(From the “Trade-marks Journal,” January 27, 1915.)

“TITOX”; for all goods (1). By P. Spence & Sons, Ltd., Helland Street, Manchester. 364,671.

"INGLEITE"; for chemicals (1). By W. L. Ingle, Ltd., Millshaw Leather-works, Churwell, Leeds. 365,122.

"CRELITE"; for disinfectants (2) and for medicinal chemicals (3). By Skilbeck Bros., 205 Upper Thames Street, E.C. 365,118/9.

"SEMPROIDS"; for medicinal chemicals (3). By S. Davenport, 4 Lambeth Palace Road, S.E. 363,368. (Associated.)

"HELIOS"; for ointment (3). By G. Jack, 2 Lismore Crescent, Edinburgh. 363,452.

"LADDER BRAND," with device of ladder and wall; for all goods (3). By the Sizing Materials Co., Ltd., 21 Spring Gardens, Manchester. 364,508.

Circular label, with words "GIBSON'S UNIVERSAL ANTISEPTIC OINTMENT" ("Universal" disclaimed); for ointment (3). By Jane Gibson, 2 Dartmouth Square, Dublin. 364,818.

"MILBUMIN"; for medicinal chemicals (3). By the British Milk Products Co., Ltd., 69 Mark Lane, E.C. 365,114.

"FYRO"; for medicinal chemicals (3). By the International Chemical Co., Ltd., 67 and 68 Bolsover Street, W. 365,156.

"GUMARA"; for gum (4). By W. W. Hill, Son & Wallace, Ltd., 5 Carey Street, Broughton Bridge, Manchester. 365,006.

"WADDOLA BANDAGE" and monogram "W. J." on circular label; for bandages (11). By W. Jowett, Cataract Bridge Mills, Marple Bridge, Cheshire. 365,141. (Associated.)

"OLD PRIORY"; for paper, etc. (39). By Boot's Pure Drug Co., Ltd., Nottingham. 364,615.

"ORANA"; for alcoholic essences (43). By Stevenson & Howell, Ltd., 95 Southwark Street, S.E. 365,109.

"ADIANTE"; for all goods (47). By W. Birch, 78 Bath Street, Birmingham. 364,677.

Device of wheel enclosing head of man in goggles; for goods (47). By Lever Bros., Ltd., Port Sunlight, Cheshire. 364,744.

Device, including words "THE BRITISH MONOGRAM OIL CO., LTD," and "MONOGRAM LUBRICANTS" ("Monogram" disclaimed); for lubricating-oils (47). By the British Monogram Oil Co., Ltd., The Vale, Acton, W. 364,817. (Associated.)

Picturo of dancing girl, for goods (47); "PUNCH." for polishes, etc. (50). By C. Thomas & Bros., Ltd., Bristol. 365,254. 364,893. (Associated.)

"RELDA," with device of portrait in frame and letter "R" ("R" disclaimed); for toilet-preparations (48). By Relda Manufacturing Co., Newark, N.J., U.S.A. 363,030.

"OPUS"; for perfumed soap (48). By Wilkie & Soames, Ltd., Greenwich, S.E. 364,533.

Devices including words "THE PEACE PILLOW CO.," "ESPRIT DE," etc., in yellow, red, and black; for perfumery, etc. (48). By the Peace Pillow Co., 17 Manchester Avenue, E.C. 364,581. (Associated.)

"VELVEROSE"; for a toilet-preparation (48). By A. T. Houliatt, 35 Junction Road, N. 364,897.

"WARNOL"; for toilet-articles (48). By Warner Oliver, Ltd., 4 Holles Street, W. 365,060.

"SHELLGLOSS"; for polishes, etc. (50). By A. H. Hamilton & Co., 160 Bardowie Street, Possilpark, Glasgow. 364,687. (Associated.)

(From the "Trade-marks Journal," February 3, 1915.)

"PARVOID"; for goods (1 and 3). By United Agencies, Ltd., 51 New Oxford Street, W.C. 364,190/1.

"FLINTAX"; for chemicals for hardening steel (1). By S. Thornley, Ltd., 6 Snow Hill, Birmingham. 365,219.

"VALOGEN"; for medicinal chemicals (3). By The British Drug Houses, Ltd., Graham Street, N. 364,545.

"KELVA"; for medicinal chemicals (3), and for perfumery, etc. (48). By G. Bowerman, Lambert House, Ludgate Hill, E.C. 364,906/884.

"APEGIN" and "ALOPEN"; for medicinal chemicals (3). By Allen & Hanburys, Ltd., Plough Court, E.C. 364,945. 365,294.

"DANZOVIN"; for medicinal chemicals (3), and for food-substances (42). By J. Hobson & Son, Dantzig Brewery, Leeds. 365,280/1.

"CASCATIVA"; for medicinal chemicals (3). By Reynolds & Branson, Ltd., Leeds. 365,326.

"KAMREX"; for scientific instruments, etc. (8). By Boot's Pure Drug Co., Ltd., Nottingham. 365,302.

"VERLOG"; for non-medicated elastic bandages, etc. (11). By T. Glover & Son, Carlton, Nottingham. 364,558.

"EMPIRE"; for goods (11), and for feeding-bottles (50). By J. G. Ingram & Son, Hackney Wick, N.E. 365,339, 365,341.

"SANTHARIS," for non-medicinal artificial salts for beverages (42); "FRUITEX," for alcoholic essences (43). By Stevenson & Howell, Ltd., Southwark. 364,619, 365,108. (Associated.)

"TONALKA" ("Tonal" disclaimed); for mineral and aerated water, etc. (44). By Idris & Co., Ltd., 120 Pratt Street, N.W. 365,205. (Associated.)

"JENNIEARIS"; for mineral and aerated waters (44). By the Bradford and District Mineral Water Co., Ltd., Bradford. 365,246.

"THE ALLIES"; for goods (47). By the United Alkali Co., Ltd., Liverpool. 363,385.

"QUO VADIS"; for perfumery, etc. (48). By S. J. Frank, 507 Fifth Avenue, New York, U.S.A. 362,386.

"ASTINOL"; for all goods (48). By Edwards' Harlene Co., 20-26 Lamb's Conduit Street, W.C. 364,131. (Associated.)

"MOORLAND"; for goods (48). By W. B. Cartwright, Ltd., Rawdon, near Leeds. 364,653.

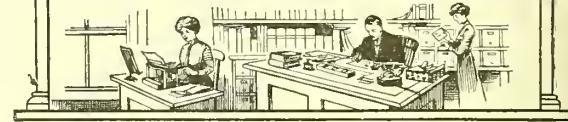
"BARRIAGAR"; for perfumery, etc. (48). By Dearborn, Ltd., 32 Theobald's Road, W.C. 365,227.

"DRITAK"; for a preparation for the treatment of oil-skins, etc. (50). By Vix Oil Co., 10 Basinghall Street, E.C. 364,905.

"SNOWFLAKE"; for rag-pulp for filtering (50). By Arnold & Foster, Ltd., Eynsford. 364,973.

"SPLAG"; for cleaning-preparations (50). By G. M. Callender, 47 Victoria Street, S.W. 365,301.

INFORMATION DEPARTMENT



Postal Address:

C. & D. INFORMATION DEPARTMENT, 42 Cannon Street, London, E.C. Telegraphic Address: "CHEMUS, CANNON, LONDON" (two words). Telephone Number: 3617 CENTRAL (three lines).

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated. Please address us as above:

255/45. Mill's wind-pills.	1/2/66. "Omnium" bandages: supply.
256/19. "Vino Sacro."	259/6. Collins' eucalyptus and menthol snuff in 3d. tubes: supply.
257/52. Calcium sulphide "Koll."	1/11. Yohimbin and lecithin tablets.
2/54. Paton serum.	1/9. "Cozendauum": supply.
2/65, 259/38. "Ideal" pump-spray (no rubber parts); said to be manufactured in Birmingham.	3/58. Orlux hand lamp, electric, to reflect downwards.
1/12. "Anti-Crave."	

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.:

"Ame de Violette" perfume, 247/161	"K.E.R." enamelled ware, 246/74
Autotherm flasks, 252/61	Kudos" toilet-preparations, 247/163
Barkols compound, 250/6	"Kymol," 250/12
Cachets, empty (French and British supply), 250/24, 251/10	Lacta, 247/16
Capping-leathers, 251/28	Ra-ba-sa, 246/63, 249/73
Carbolic acid, 248/67 (for France), 254/44	Radio-active zinc sulphide, 245/51
Chaumier's vaccine, 249/74	Rubber sponges, 252/60
Comperium, 252/58	Safety razors (British makers), 250/33
Concentrated perfumes, 248/27	Santaloids, 253/5
Cracraft's tooth-paste, 246/61	Saxolite, 247/16
Dermoline, 251/19	Stomalix, 251/18
"Dolphin" feeders, 246/62	Styramol, 244/16
"Eau de Louvain," 240/74	Surgical needles, 251/2
"Elo" preparations, 247/29	Taylor's perfume-sachets, 252/65
Dr. Fair's cachets, 247/165	Test-tubes, 246/74
Fletcher's "Castoria," 245/57	Turnbull's tincture of capsicum, 251/19
"Gotor" toothache-cure, 247/160	Turnip-dressing, 244/56
"Icy-Kol" shampoo, 247/35	

Observations and Reflections.

By Xrayser II.

Insurance Pharmacopœias,

no matter how diverse they may be in the matter of formulae, have this in common, that they all abound in stock mixtures; indeed, if it were not for the call for such the half of these books would never be printed. In view of your article, and of the series that will no doubt follow, on "Insurance Pharmacopœias," I am at a loss to know who and where are the men who make such an outcry whenever it is proposed to regularise the stock-mixture idea. We pharmacists are a curious class of men. In our corporate capacities and in our Association meetings we fulminate with vehemence on the very notion of stock mixtures, but when we get down to rock-bottom not one of us but considers that the stock mixture is a boon and a blessing, and when it is proposed by the Panel Committees we all coo as gently as a sucking-dove.

The Fear that Patients' Interests

may be endangered by the disputes between doctors and chemists with regard to the cost of prescriptions is finding voice in the public Press. It is true that all the newspaper articles on the subject that I have seen were apparently meant to be reassuring, but the mere discussion of such a possibility is a little disquieting. Once let the idea be allowed to find entrance and it will not easily be dislodged. And there is no doubt that if it became current the Insurance Act would be seriously discredited. There is, of course, no real ground for it, but that matters little so far as the result on the public mind is concerned. We have here a very strong additional reason for demanding the revision of the discounting clause. So long as doctor and chemist are publicly wrangling over the cost of prescriptions the patient will be tempted to regard himself as the carcase round which the eagles are gathered together, intent on gorging themselves at his expense; but if the doctor were made directly responsible for what he prescribes over and above the provision made for the purpose, nothing more would be heard of this matter of cost. He would either get the provision enlarged (which we cannot do), or would find it quite possible to prescribe in accordance with it.

Not Much Progress

could reasonably be expected in the efforts to produce British-made goods in six months, but the exhibition at the meeting of the Society of Chemical Industry shows that we are well on the way towards meeting the demand for many classes of goods hitherto almost exclusively made in Germany. If the war lasts another six months it is more than likely that some of the new industries will be sufficiently established to stand on their own feet without any aid from State crutches. It is satisfactory that an arrangement has been come to so that the project of extending aniline-dye manufacture may now proceed. I have confidence that the result will justify the experiment in granting State aid, and that once there is a supply of technical and research chemists there will be not the least difficulty in competing with Germany on her own ground. When we are preparing the entire range of coal-tar products, the utilisation of what used to be waste will enable us to reduce prices all round, and thus in a short time make the industry self-supporting.

Ought Membership of Chemists' Associations

to be confined to legally qualified pharmacists? It depends, surely, on the constitution and objects of the Association. The

Liverpool Association has, I believe, never, as a matter of fact, so restricted its membership, and the idea of expelling members is not one likely to be entertained. But as a matter of principle and policy alike I do not think that in a strictly trade association any but qualified traders should have voting-power. In the case of an Association like that of Liverpool (I hope it will not be supposed that I refer to Liverpool otherwise than illustratively) it seems to me that the difficulty would best be met by ruling that none but qualified chemists should vote on trade questions, and by trade questions I mean those affecting the retail branch particularly. The wholesale members would suffer nothing by this; their brother members of the Association belonging to the retail would simply look after their own interests; the wholesalers could look after those of outsiders by other means with equal effect.

The Association

of the Phoenix and the key in symbolism and ornament has never, so far as I am aware, been explained. A correspondent of the *C. & D.*, writing under date May 28, 1910, well said that the combination of the two on the cover of this journal, "which has during the half-century of its existence unlocked so many secrets which were previously hermetically sealed," was a happy thought; but it appears from one of the illustrations to the article on "Chemists' Shop-bills" in your recent Winter Issue, that you were not the first to use this symbol, and that it was designed to have a special reference to the secret of health. The phoenix, however, is not properly a symbol of health, but of unique excellence or matchless beauty, and also of indestructibility. The key, again, signifies not so much the unlocking of secrets merely, but the opening of the way, it may be to knowledge, or it may be to power and opportunity. I prefer to interpret your symbol in this larger sense, as signifying unique excellence of its kind, devoted to the opening of the way of success for the struggling pharmacist. In this sense you have made this double symbol your own. But I should like to know who first used it, and what specific intention.

The Ordeal by Poison,

said Mr. Tait in the paper on the subject read at Edinburgh, was probably earlier in date than the custom of poisoning arrows. I think this very questionable, but undoubtedly it was very early indeed, and I believe the most ancient record we have of an ordeal is that found in the Book of Numbers, which seems to belong to this class, though Ewald thinks that poison did not enter into it. The essence of the ordeal was the drinking of the "bitter water" from the sacred vessels of the tabernacle, mixed with a little dust from the floor, which would itself be, like the water, "holy." The Brahmins had a similar ordeal, the holiness being imparted to the water they used by dipping a sacred image into it. It was, as we know, held dangerous for ordinary people to have any contact with holy things, and possibly the holiness of the water may have been regarded as a sufficient test, but the Brahmins had also an undoubted poison-ordeal as well, aconite being, as is supposed, its active ingredient; and neither they nor the Jewish priests would be likely to employ an agent which could not possibly have any direct physical effect, since a very distinct physical effect was expected to follow in the case of a guilty person. Moreover, as Dr. Tylor points out, the water used in the Jewish ordeal is termed "bitter" before it was cursed—it was, indeed, "the water that causeth the curse"—and he concludes that some drug was added in addition to the dust from the tabernacle floor. Even if this were not the case we have here without question a survival of the ordeal by poison. There is also an apparent reference to it in Psalm 109. v. 18, though this is not so certain.

"SANITAS-SYPOL"

A SUBSTITUTE FOR "LYSOL."
INTRODUCED BY US IN 1902

PATRIOTIC CHEMISTS
— are asked to push this —
BRITISH MANUFACTURE

Guaranteed Co-efficient 3.

Forms a clear solution with water and is the MOST POWERFUL member of the group of Liq. Cresoli Saponatus fluids.

6d. and 1/- Bottles and 6/- per gallon.

Leaflets and Samples on Application.

The "SANITAS" CO., Ltd., Limehouse, London, E.



Wilcox, Jozeau & Co.
49, HAYMARKET, LONDON, S.W.
Export and other Buyers should apply for a List.
Foreign prescriptions dispensed for Pharmacists

**BRITISH
ABSOLUTE ALCOHOL.**
Jas. Burrough Ltd. D.I. Cale Distillery, Hutton Rd.,
LAMBETH, S.E.

"A revolution in the art of Urine Testing."—Medical Press & Circular

ENDOLYTIC TUBES

"The Laboratory in the Waistcoat Pocket."

Wholesale Terms on application to the Sole Proprietors:
FLETCHER, FLETCHER & Co., Ltd., HOLLOWAY, LONDON, N.

Editorial Articles.

Our Students' Corner.

I.—Its Aim.

It was stated in our columns long since, and the statement has been repeated there at frequent intervals, as well as in written replies to numerous individual students, teachers, and others, that the first aim of our Students' Corner is education. Founded well-nigh fifty years ago, it has all along been utilised to provide students of pharmacy with instruction in one or other of the various subjects essential to their training as well-educated, com-

petent men and women. The association of this aim with the awarding of book prizes for the best reports, essays, answers, etc., in competitions which have been varied a good deal in character from time to time, while we always regarded it as a matter of altogether secondary consideration, is nevertheless one which has served a good purpose as a stimulus, and has justified itself by the undoubtedly spirit of emulation which it arouses among students. It is, of course, true that some students, at times, have lost sight of, or have been unaware of, the fact that the gaining of prizes is not the first end to be attained, but it is probable that many more have been primarily interested in the competitions because they realised that they were indeed gaining useful knowledge from them. The incidental winning of a first or a second prize could scarcely be otherwise than encouraging and gratifying, but we have confidence in asserting that this has been regarded by most of the students who gained the prizes as marking good and conscientious work rather than as a mere material gain. Then the winners have been restricted to scientific books in selecting their prizes, and in this manner an additional advantage is attained, because the way to further study is thus rendered so much the more easy.

With a view to the fulfilment of its aim as an educational agency the work of the Students' Corner has, as already indicated, been varied in many ways during its long career, but the line which seems to have met with most acceptance, since it has attracted more correspondents than any other, is that which is at present its strong feature—viz., the sending-out of samples of mixtures for analysis and report to all pharmaceutical students who care to send stamped and addressed envelopes for them. The reason for the popularity of these analytical exercises is probably not far to seek, since the exercises are usually designed to present a standard of difficulty not greatly differing from that of the mixtures for analysis given at the Minor examination, and they are therefore appropriate for the stage of advancement in qualitative analysis to which a properly prepared candidate for that examination may be expected to have attained. While it scarcely requires to be stated, perhaps, that analytical work usually capable of gaining a Students' Corner prize is on a level of excellence higher than that of the Minor pass standard, the position gained by students in attempting our exercises nevertheless furnishes them with an independent test of progress and of the degree of knowledge and skill to which they have attained.

When there are placed before students any kind of educational facilities of which they may avail themselves or not just as they choose, it is a familiar experience that the degree of zeal in participation varies from keen interest to almost total indifference, and also that, broadly stated, those who are most zealous are those who are least likely to be at a disadvantage in examinations through want of additional instruction; hence it need not surprise that such variation should be noticeable among pharmaceutical students in their attitude towards the Students' Corner. Our aim is to be of assistance to all, but in the nature of things it is inevitable that those students who take part in our competitions must, from the first, be looked upon as having undergone a species of selection, inasmuch as they have had sufficient interest to send for, examine, and report upon the exercises set. We do not, of course, assert that our competitions attract only the best students, and we very much desire that this should not be the case, but it is impossible to get away from the fact that at

least a certain amount of selection, of the kind indicated, does indeed take place, to the disadvantage, as we venture to think, of those students who could, but who do not, participate.

January Trade.

THE overseas trading of the United Kingdom during the first month of the year and the sixth of the war shows that while the imports are practically equal to those of January 1914 the exports of British produce show a slight improvement over those of December 1914. The following are the figures and those of January 1914:

	Imports.	Exports.	Re-exports.
January	£	£	£
1915 ...	67,401,000	28,247,000	6,895,000
1914 ...	68,005,000	47,806,000	9,597,000
Decrease ...	604,000	19,558,000	2,702,000

Six months having elapsed since the outbreak of war, it is of interest to compare our imports and exports during the period.

	Imports.	British Exports.
	£	£
August, 1914 ...	42,392,000	24,211,000
September, 1914	45,051,000	26,674,000
October	51,559,000	28,601,000
November	55,987,000	24,601,000
December	67,554,000	26,278,000
January, 1915	67,401,000	28,247,000

It will be seen that, with the exception of October, last month was the best for British exports during the war period. The figures for January imports show an advance of 7,363,000 l . in foodstuffs, grain and flour accounting for 3,731,000 l . more, and dutiable goods 2,914,000 l . more. Higher prices are responsible for much of the increase, there being some striking differences between quantities and values. Raw materials and partly manufactured goods are 4,898,000 l . lower, the bulk of this being in cotton and mohair, the former showing a decline of 3,691,000 l . but the quantity obtained was practically the same, 3,006,000 centals—an illustration of how raw cotton has fallen in value as a result of the war. Oil-seeds and the like were larger by 111,400 l . at 3,741,000 l . Petroleum imports were 5,317,200 gals. more, but the value was 223,900 l . less. Manufactured goods were less by 2,909,000 l . the decline being fairly distributed, one of the few *plus* signs being chemicals 1,293,617 l . or 226,300 l . more. Values in this section have risen considerably—*e.g.*, natural indigo imports were valued at 261,200 l ., an increase of 256,260 l ., but the increased quantity was only 4,188 cwt. Tanning substances, with the exception of valonia (formerly supplied by Turkey), are coming in much better, but prices are naturally higher. Painters' colours have dropped from 204,700 cwt. to 71,518 cwt. or 133,185 cwt. less. Quinine imports were 38,790 oz. less, but the value increased by 931 l . Saltpetre (chiefly Indian) shows an increase of 6,342 cwt. or 18,940 l ., but other potash compounds are down by 5,000 l . Only 19,084 lb. of quicksilver was imported last month, or 82,000 l . less; and of saccharin the imports were 231,964 oz. or 152,750 oz. more. Foreign spirits were imported on a larger scale, being 971,851 proof gals. against 876,500 proof gals., but the values were less by 26,000 l . On the export side of the account the decrease of 19,558,000 l . is made up of 16,833,000 l . in manufactures, 2,562,000 l . for raw materials, and 386,000 l . in food and the like. It may be emphasised that “the accounts of goods exported include goods bought in the United Kingdom by, or on behalf of, the Governments of the Allies,

but do not include goods taken from British Government stores and dépôts or goods bought by his Majesty's Government and shipped on Government vessels.” Considering that so much of our manufacturing activity is now concentrated on work for the Government, it will be seen that the decline in exports is no proper measure of the condition of our industrial activities. It should also be remembered that the British Government has prohibited exportation of a large number of articles, and that this makes a considerable impression upon the returns. This is clearly the case with drugs and chemicals, exports of which fell by 397,557 l . to 1,624,435 l . The heaviest decline was in coal products not dyes, by 162,127 l . many of these articles being on the prohibited list, such as aniline oil, benzol, toluol, and carbolic acid. Chemical manures were less by 10,293 tons, or 148,700 l ., and there was also a decline of 117,400 l . in painters' colours. On the other hand, there was a remarkable increase of 2,199 tons (38,305 l) in copper sulphate; potassium compounds also advanced by 10,300 l . and miscellaneous chemicals by 14,580 l . The section comprising drugs and medicinal preparations, with which this journal is particularly concerned, continues to show very favourable results, the January figures being a mere 4,200 l . less at 221,875 l . The comparisons between the months of the war are of peculiar interest at the moment, as they cover a period of six months; they are as follows:

	1912-13	1913-14	1914-15
	£	£	£
August ...	196,436	169,571	121,815
September ...	201,735	210,821	128,265
October ...	220,823	198,505	177,150
November ...	212,695	191,031	205,109
December ...	192,157	205,227	221,959
January ...	213,902	225,080	221,875

The rapid recovery to practically normal figures after the shock of war in August is particularly noticeable in the above figures, but it must not be forgotten that higher values all round have materially helped. There is therefore every reason why the British chemical and drug trades should continue on the alert. They have proved their ability to meet demands from countries which seldom came into our markets before the war, and they have only to keep at it steadily and regularly in order to get more. As to British overseas trade on the whole, it will be seen that the report is exceedingly gratifying, proving as it does how completely our enemies have failed to damage British commerce. Knowledge of this fact is one of the things that have caused the Germans to threaten the world with further exercise of their spite against all who are trading with the United Kingdom.

“Sulphur in the Socks.”

He was very sorry to see a book advertised to the drug-trade purporting to treat of diseases and their remedies. That work was said to have been the production of a learned physician, who modestly concealed his name, and it contained just the amount or rubbish one might expect. It stated, among other things, that “the nature of cancer was perfectly understood,” and the priceless revelation was given that “sulphur in the socks was a preventive against cholera.” (Laughter.) As long as pharmacists confine themselves to “sulphur in the socks” the medical profession would not interfere.

THUS spoke Sir James Crichton Browne, M.D., F.R.S., at the dinner of the Pharmaceutical Society of Great Britain in 1899. As an after-dinner speaker Sir James is inimitable. Those who heard him utter the quoted passage cannot forget how the words “sulphur in the socks” rolled from his facile tongue with a resonance which only he can produce. The passage in “Diseases and Remedies” that Sir James made such good use of

was on p. 32 of the 1898 (or first) edition, and is as follows :

Sulphur in the socks is a preventive. If a teaspoonful of flores sulphuris is placed in each of the socks every morning, this is absorbed through the freely acting pores of the soles of the feet. This keeps the blood pure and enables it to resist the action of germs. Sulphur has been much used in Indian epidemics, both by fumigation in the shape of sulphur-fires burnt round about and in infected districts, and also as lac sulphuris 5*g.* to 5*ij.* taken internally.

It is also stated in the book that sulphur has been used in the treatment or prevention of constipation, diphtheria, and rheumatism. The 1899 incident is recalled to us by a letter written by Sir Lauder Brunton, Bart., M.D., F.R.S., to "The Lancet" in regard to rheumatism among soldiers. In this he says :

In some cases, at least, of rheumatism sulphur is an exceedingly useful antirheumatic. Many years ago, with the conceit born of ignorance, I considered the statement that powdered sulphur worn inside the stocking is a cure for rheumatism to be only an old wives' fable. I learnt my mistake from a case which occurred in my own practice. I was seeing at fairly regular intervals for albuminuria a thoroughly skilled scientific chemist. One day he asked me to prescribe for his wife, who was suffering from rheumatic pains in her hands, which prevented her from sewing. This was to her a very serious matter, as she added much to their joint income by embroidering altar-cloths and the like. I gave him a prescription as requested, and at our next interview I asked him how his wife was. "Oh," he said, "she is quite well." I was much pleased at this, and was taking the credit for the cure to myself, when he told me that the medicine I had given her had done her no good at all, but a friend had told her to powder the inside of her stockings with sulphur and wear them all night. In a short time this completely cured her, and her husband said the sulphur must have been absorbed through the skin of her legs, passed through her body, and been excreted by the skin of her arms, because her silver bangles became black. This remedy is simple, cheap, and easily applied, and might be useful in the case of our soldiers. I hardly think it could do any harm whatever, though I have no experience of the effect of sulphur continuously applied to the skin for some weeks together, but at any rate I think it is worth a trial.

We might say more, but leave disputation to these two distinguished Scots medicos. We have the satisfaction of having got our ain back, not only in Sir Lauder's remarks, but in the four editions that the book has passed through.

Martindale's "Extra Pharmacopœia."

THE sixteenth edition of Martindale and Westcott's "Extra Pharmacopœia" will be on sale on February 15. It is published by H. K. Lewis, in two volumes (2*s.* net, or separately 1*s.* and 7*s.*). Compared with the last edition, the first volume contains the same number of pages, but the second volume has been increased by a hundred pages. Physical tests, however, in the present instance do not convey an accurate guide to the alterations that have been made. Only by comparing the work page by page is it possible to obtain an accurate idea of the amount of work which has been put into the revision. We opened the book at Radium, and soon found that, although the space occupied is approximately the same, the matter has been brought up to date, which in the case of a changing subject like radium involves many fresh entries. Rutherford's table of the transformation of radium even has been revised in the light of knowledge acquired within the two and a half years that have elapsed since the last edition was published. The numerous alterations due to the publication of the British Pharmacopœia, 1914, have been incorporated throughout. "What effect has the war had upon the 'Extra Pharmacopœia'?" we asked ourselves, and forthwith plenty of evidence was forthcoming. The most striking is the article on

"Wounds in War" in the therapeutic index, where the authors have gathered together and placed in as few words as possible the gist of recent publications. Then the question of patents and trade-marks has been considered in the light of war legislation. Certain patents have had placed against them the numbers of the British patents, and although the star which indicates a trademark does not show which are the property of alien enemies, we are told that all the marks have been checked at the Patent Office so recently as November 1914. The authors, however, hold that science is international, and have not followed the German method of trampling on everything not of native origin. In regard to urea derivatives, some attention is given to the Poisons Schedule expression "All poisonous ureides," and in face of disagreements as to the exact chemicals included in that expression the authors recommend chemists to err on the side of caution. It would be possible to write a good deal regarding the additions to Volume II. As an instance of the new matter we may mention the abstract of the Report of the Select Committee on Patent Medicines and a revision of the list of patent and proprietary medicines. The antiseptic power of chemicals is another subject which continues to grow; it embodies the result of six years' consecutive work in the Martindale laboratories. A work in its sixteenth edition hardly needs a fresh recommendation from us, especially as we have indicated that, while features of the work are retained, thorough revision has brought it into line with current science and practice. It is a book that is indispensable to the modern pharmacist, and in this case an old edition is not "just as good."

Pediculus Vestimenta.

INQUIRIES in regard to the plague of the armies continue to be received by pharmacists as well as by doctors, and Sir Lauder Brunton, Bart., is the last authority to say something about the prevention of lice. Writing to "The Lancet" of February 6, he says :

In the first edition of my "Pharmacology," published in 1885, I mentioned (p. 1105) five remedies for pediculiz, baking clothes to destroy the ova, mercury, anise, pyrethrum, and stavesacre. In the third edition, published in 1893, I added to this list chloroform, coeculus indicus, Dalmatian flowers, essential oils, laurel-leaves, petroleum, and quassia. The conditions of life on active service make it almost impossible to employ any parasiticide, excepting in the form of an ointment. In the "Morning Post" of January 14 there is a recommendation to employ mercurial ointment smeared upon one thick woollen string worn round the neck and another round the waist. This is a very simple method, and seems worthy of a trial. In hospital-practice the white-precipitate ointment, of the strength of 1 in 10 for the body and 1 in 5 for the pubes, or else stavesacre-ointment, is more usually employed. Cantani, in his "Farmacologia Clinica," second edition, vol. ii., p. 212, recommends pyrethrum-ointment as most efficacious against both forms of lice. It is made by mixing 1 part of pyrethrum with 2 of lard. Many essential oils, such as eucalyptus, seem to have a similar beneficial action to anise or pyrethrum. Anise is particularly useful in keeping away fleas, and an easy way of employing it is to carry about on one's person a small muslin bag filled with aniseed.

There is nothing very new in this statement. The most common request is for something to prevent the pest getting on the person, and that is the very thing that the wit of man has not yet accomplished. Dr. Shipley has pointed out that "infection" comes by contact. Men may lie down on ground which has been previously lain on by some infected person or beast, and the ova of the pediculus (which are so difficult to kill) are thus transferred to them. Men in the trenches cannot avoid contact, and it is there in part that they catch the ova.

Any nit or nursery ointment is serviceable for getting rid of these, but what the men want is a hot bath and clean underclothing. This is recognised in the Service, and Lieut.-Colonel Monckton Copeman, M.D., F.R.S., quotes in the same issue of "The Lancet" the following official memorandum issued to medical officers:

TREATMENT FOR DESTRUCTION OF VERMIN.

Arrangements should be made for the bathing of affected individuals and other inmates of infected tents. After drying themselves, men to lather their bodies with cresol-soap solution [water 10 gals., Jeyes' fluid 1½ oz., soft soap 1½ lb.], especially over hairy parts, and to *allow the lather to dry on*. Shirts to be washed in cresol-soap solution made with boiling water. Tunics and trousers to be turned inside out and rubbed with same lather, especially along the seams. *Lather to be allowed to dry on the garment.*

Dr. Copeman says that this "simple and inexpensive method, which has been employed by us over a period of several months, has proved so successful that no necessity has arisen for a trial of other means of treatment." It is, in our opinion, advisable that the method should be used whether men are infected or not, and we presume that coal-tar or phenolic soap should be as effective as a preventive if similarly well used in the bath.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

SCOTTISH DRUG ACCOUNTS BUREAU.

Mr. Pringle had a question on the paper for the Prime Minister to answer in regard to the Court of Session case, but no answer has been given, probably on account of the appeal (see p. 39).

COMPULSORY INOCULATION.

Mr. H. J. Tennant, M.P., has intimated that the introduction of a Bill for the compulsory inoculation of troops is not at present contemplated, although the question may be further considered should the necessity arise.

THE CELLULOID QUESTION.

Replying to Mr. T. M. Healy on Monday, February 8, the Home Secretary said he would be glad to see a public Bill dealing with celluloid passed at the termination of the war, and he does not think he would be justified in opposing private Bills making provision for the interval between the close of the war and the passing of general legislation.

INSURANCE OF SOLDIERS.

Dr. Addison, replying on behalf of the Chancellor of the Exchequer to Sir J. D. Rees on Monday, February 8, stated that it is not contemplated to increase the normal Insurance contributions of men on service, as has been done in Germany. An invalid soldier or sailor who has been insured during service is entitled on discharge to obtain medical attendance and medicines under the usual conditions.

ALCOHOL, CHLOROFORM, AND ETHER.

Mr. Fell asked the President of the Board of Trade, in the House of Commons on February 9, if it is proposed to make any new regulations to relax the restrictions placed on the manufacture of alcohol for commercial purposes, so that chloroform, ether, and such products can be manufactured in this country at a reasonable price. Mr. Acland, replying for the President, said that under existing regulations chloroform and ether are allowed to be manufactured from duty-free industrial methylated spirit. He is not aware that any amendment of the regulations is required, but if the hon. member will explain what he has in mind he will consider it.

INDIGO.

Sir John Jardine asked the Under-Secretary for India on February 9 whether any arrangements have been made by the Government for the financing of the surplus crops of Bombay cotton, indigo, indiarubber, and ground-nuts; and whether any sort of estimate has been made of the quantities available for export. Mr. Roberts replied that the Indian Government are prepared to make loans to the Presidency banks, which in turn will lend to other institutions with a view to facilitating the grant of advances to help the trade in Indian products.

Sir J. D. Rees, M.P., will ask on Tuesday next whether the Government of India is taking steps to ensure that the recovery of the natural indigo dye-trade, consequent upon the war, shall be, so far as possible, permanent in character.

SICKNESS INSURANCE CLAIMS.

The Chancellor of the Exchequer was asked in the House of Commons by Mr. Handel Booth, M.P., on February 9, whether the Insurance Commissioners are aware that the second year's working of the National Insurance Act shows a marked diminution in the sickness-claims of the Approved Societies; and if he will say to what this improvement is to be attributed. Dr. Addison replied that returns for the second year of benefit expenditure are not yet available, and he cannot therefore make any general statement of the kind suggested. Some reduction in expenditure would, of course, result from the fact that since August last so many insured persons have been serving with the Colours. Apart from that, Societies have doubtless profited by their own experience, or been assisted by advice from the Commissioners, and have effected improvements in their administration of Sickness Benefit as compared with the previous year.

Mr. Handel Booth: Is my hon. friend not aware that there has been a most marked improvement in the sickness-rate among women?

Dr. Addison: I have heard reports to the effect mentioned, but there are no official reports in the Commissioners' office.

THE GOVERNMENT ANILINE-DYE SCHEME.

In the House of Commons on Monday, the President of the Board of Trade (Mr. Runciman), replying to a series of questions by Mr. A. Sherwell, M.P. for Huddersfield, said the original scheme for the development of the dye-making industry in this country on a large scale has now been modified, as it appeared that, owing to difficulties arising in connection with some details of the proposal, it was improbable that the amount of capital contemplated could be raised. He explained what the new scheme is in the terms reported in the *C. & D.*, February 6, p. 185. He added that a new feature of the scheme is that the company will be required from time to time to show to the satisfaction of the Treasury that the amounts granted for research have been expended solely for the prescribed purposes. The scheme, like the original scheme, provides for the nomination by the Government, so long as any part of the Government advance is outstanding, of two directors, who will have the ordinary powers of directors and also certain special powers to prevent undue preference or encroachment on the business of undertakings not concerned with the making of dyes and colours; but there is not, nor has there ever been, any intention to utilise these powers so as to hamper the business management of the company in such matters as the working-up of by-products or the giving of priority in supply to shareholders in the company. He shared in the belief of the Committee that the new scheme will provide both for the immediate and effective utilisation of existing sources of supply and for their expansion with as much rapidity as is compatible with sound development.

The suggestion is being made to the Prime Minister that an opportunity should be afforded for the discussion of the new modified scheme, or that an explanatory Government memorandum should be issued.

On the same day the President informed Mr. Austen Chamberlain that no permit was given by H.M. Government for the shipment of German dyestuffs in the s.s. *Matanzas*, nor did the question of a permit arise, as the vessel is a neutral one engaged in trade with a neutral country.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Doctor's Appeal against Surcharge.

The Commissioners have issued their decision in the appeal by a Sheffield panel practitioner against a surcharge of 12/- by the Insurance Committee (*C. & D.*, December 19, 1914, p. 56). The Commissioners, while not going so far as to hold that it was not competent for the Panel Committee to depute the actual investigation to a Sub-Committee, are of opinion that there is real substance in the objection made by the counsel for the practitioner that the Panel Committee made its report to the Insurance Committee without first giving the doctor the opportunity of appearing before it (the Panel Committee), as provided by the Regulations, and that this defect in procedure invalidates the report of the Panel Committee, and, in consequence, the decision of the Insurance Committee based on that report. They accordingly allow the appeal, and consider that the Insurance Committee should refer the case back to the Panel Committee for a fresh report after they have heard

the doctor. The Commissioners further call the attention of the Insurance Committee to the fact that under the Regulations the Panel Committee is required to make a report to the Insurance Committee, on which the Insurance Committee arrive at their decision as to surcharging. It is pointed out that in the present case the report of the Panel Committee consisted merely of a recommendation that the practitioner should be surcharged in a certain percentage, and did not set forth the facts of the case for the information of the Insurance Committee. It appears, therefore, that the Insurance Committee had very scanty information to work upon, and while it is quite proper, and even necessary, for the Panel Committee to make a recommendation for the guidance of the Insurance Committee, the responsibility of the decision rests with the Insurance Committee, who should be provided by the Panel Committee with a full report of the facts of the case to enable them to arrive at a decision.

Reports from Local Centres.

With special reference to the supply of medicines and appliances. See also Winter Session.

ENGLAND.

Barnsley.—Chemists' accounts for the last quarter of 1914 amounted to 814. 15s. 8d. Medical practitioners have been paid 250*l.* 1s. 10*d.* on account from the balance of the Drug Fund.

Berkshire.—The Finance and General Purposes Sub-Committee reported to the Insurance Committee on January 30 that the Panel Committee, having further considered the application of the Pharmaceutical Committee for administrative expenses, do not concur in the application. The Sub-Committee have laid the facts before the Commissioners, stating that they consider the application a reasonable one, and asking the Commissioners' observations thereon. The Sub-Committee also recommended, and the Insurance Committee agreed, that 75 per cent. of the chemists' accounts for the quarter ended December 31, 1914, be paid. The report further stated that there appeared to be sufficient money in the Drug Fund to enable them to pay the chemists' accounts in full.

Blackburn.—The Insurance Committee on January 9 decided that panel practitioners should be requested (a) to use a separate form for each prescription; (b) to use "Reprint" only in the case of prescriptions given during the same month as the original. It was resolved to send the prescriptions and chemists' accounts for the last quarter of 1914 to be checked by the Pharmaceutical Society, at a cost of 10*s.* per 1,000, and that those for war-scheduled drugs be checked by Mr. W. H. Walsh at 12*s.*d. per 1,000. The Clerk was instructed to communicate with the Insurance Committees in Lancashire to ascertain whether they would favourably consider a proposal to establish a central prescription-checking office for the county, and, if the response is favourable, to call a conference of representatives of the Committees to consider details of a scheme for carrying the proposal into effect.

Bolton.—A report of the Pharmaceutical Committee containing charges of over-prescribing against thirty-seven doctors was discussed by the Panel Committee on January 22, and was referred back in order that the cost of drugs might be distinguished from that of malt and oil, etc. The Committee considered the latter to be the chief cause of over-expenditure. It was reported that at a general meeting of panel practitioners ten prescriptions for stock mixtures were adopted.

Bury.—At a meeting of the Insurance Committee on February 3 it was decided that the checker be instructed to pass prescriptions for rubber adhesive-plaster. Chemists' accounts, value 58*l.* 18*s.*d. were passed for payment.—Mr. Newman Hulme has resigned the position of Secretary to the Pharmaceutical Committee, and has been succeeded by Mr. A. W. Charnley.

Cheshire.—A statement recently issued regarding the 1914 Drug Fund indicates that the chemists' claims for the year amounted to 18,300*l.* The income is estimated at 18,987*l.*, and after deducting (1) 10 per cent., in accordance with the Commissioners' instructions in respect of (a) period being eleven days short of a calendar year, (b) persons transferred to Army or Navy Fund, and (c) temporary residents (1,899*l.*), and (2) the amount estimated due to dispensing doctors (2,888*l.*), it is anticipated that there will be a balance of 14,200*l.* available for the payment of chemists' accounts, equal to 80 per cent. of the claims submitted. The deductions from the chemists' accounts for the period November 12 to December 31, 1914, amount in some cases to 69.5 per cent.

Croydon.—A long discussion took place at the meeting of the Insurance Committee last week on a motion that stock mixtures should not be approved. Dr. Willecock and

Dr. Nicholls were the principal speakers against it. The motion was carried, there being about six dissentients. It was further decided that a copy be submitted to the Panel Committee, with the request that they agree to the stock-mixture clause in the Tariff being inoperative.

Folkestone.—Mr. C. J. Taylor, Ph.C., Cheriton Street, Folkestone, has been appointed representative of the Cheriton (Kent) Urban Council on the Folkestone District Insurance Committee.

Gloucester.—At a meeting of the Insurance Committee on February 8 a report was submitted regarding improper accounts which had been rendered by a panel chemist. A Sub-Committee had investigated the matter, and the explanation furnished by the chemist was not wholly satisfactory. It has been proved that in several instances larger quantities of malt and cod-liver oil had been charged for than had actually been supplied. The chemist's statement that the discrepancies occurred through the act of his assistant while he (the chemist) was unable, through illness, to give personal attention to the prescriptions, the Sub-Committee accepted and were willing to regard as an extenuating circumstance; but they thought the incident a distinct warning, and that greater care must be exercised in charging in future. They recommended that the chemist should be surcharged in any additional expenses to which the Committee had been put in the matter. This was opposed on the ground, as the chemist had been ill and the fault was really committed by his assistant, the Committee ought to take a magnanimous view of the case; but the recommendation to surcharge was finally adopted.

Northamptonshire.—A joint meeting of representatives of the Insurance, Panel, and Pharmaceutical Committees has recommended to the Insurance Committee that scrutiny and analysis of prescriptions be carried out from January 1, 1915, the cost to be borne—one-half by the Insurance Committee and the balance by the Panel and Pharmaceutical Committees in equal proportions. The appointment of a checker at a salary of 100*l.* per annum was also recommended.

Norwich.—The report of the Finance Sub-Committee, presented to the Insurance Committee on February 2, stated that chemists' accounts for October 11 to December 31, 1914 (value 567*l.* 16*s.* 9*d.*), had been paid in full. Chemists' claims for 1914 amounted to 3,217*l.* 6*s.* (unchecked), and 2,913*l.* 10*s.* 4*d.* had been advanced on account. The Drug Fund for 1913 amounted to 3,288*l.* 9*s.* 11*d.*, and the Sub-Committee hoped, given the same credit as in 1913, to be able to settle the chemists' accounts in full. The formation of a Pharmaceutical Service Sub-Committee was recommended.

Oxford.—The Insurance Committee on January 29 passed payment of chemists' accounts for October 12 to December 31, 1914 (238*l.* 19*s.* 9*d.* chargeable on the Drug Fund and 7*l.* 3*s.* 11*d.* on the Sanatorium Fund). Mr. H. C. Goodall (chemist) stated that 39,570 prescriptions had been dispensed during 1914, and that after paying the chemists' accounts in full there would be a balance of 200*l.* on the Drug Fund. He paid a tribute to the work of Dr. Higgs (Secretary of the Panel Committee) in keeping the cost of prescribing within the limits of the Fund.

Plymouth.—Chemists' claims in the old Plymouth area for the fourth quarter of 1914 amounted to 758*l.* Payments to chemists during 1914 have been as follows: First and second quarters, 50 per cent.; third quarter, 90 per cent.; and fourth quarter, 66 per cent.—equal to 66 per cent. for the year. The Insurance Committee has resolved that chemists should send in their accounts on the last day of each month, and any accounts outstanding after the 7th of the following month will not be paid until the succeeding month. At a recent meeting of the Medical Benefit Sub-Committee it was provisionally agreed that, subject to the consent of the three parties comprising the Scrutiny Committee, each Committee should subscribe one-third of the estimated expenditure of the scrutiny (150*l.*). It was also agreed that all prescriptions should be written in full during the early part of each month, so as to facilitate checking, and that for three months the Clerk should remind each practitioner of the fact before the end of each month.

Reading.—In regard to chemists' accounts, the Medical Benefit Sub-Committee has recommended to the Insurance Committee that when the third month's account in each quarter is rendered, the General Purposes Sub-Committee shall pay 50 per cent. pending the completion of the quarter's accounts, when a further payment would be made if practicable.

Southport.—At a meeting of the Panel Committee, held on January 28, the report of the prescription-checker was considered, and the Secretary was instructed to write to those doctors whose prescriptions were above the average in price, pointing out the necessity for more care.

Staffordshire.—The Insurance Committee on February 6 referred back for further consideration a recommendation of the Medical Benefit Sub-Committee that linseed-meal and material for poultices should be considered as part of Medical Benefit.

SCOTLAND.

Aberdeen.—The Insurance Committee on February 5 had the result of the Court of Session action as to the Drug Accounts Committee (*C. & D.*, February 6, p. 39) notified by the Glasgow Committee. It was resolved to stick to the position taken on this matter. Mr. John Johnston, the checker, reported that of 17,064 prescriptions checked for the quarter ended April 11, 1914, 2,951 were incorrectly priced, adding that, on the whole, chemists had endeavoured faithfully to carry out the pricing in accordance with Tariff rates.

Aberdeenshire.—The Insurance Committee has decided to support the Glasgow and other Insurance Committees in opposing the Central Prescription-checking scheme of the Commissioners.

Banffshire.—At a meeting of the Insurance Committee on February 6 it was stated that 162*l.* had been paid to chemists, representing 85 per cent. of their accounts, for the quarter ended October 11, 1914. The accounts for drugs, etc., supplied during the quarter ended December 31, 1914, amounted to 170*l.* The Committee approves of the Central Prescription-checking Bureau.

WALES.

Central Checking-bureau.—The Insurance Committees of Merioneth and Cardiganshire have remitted the question of taking part in the establishment of the proposed Central Prescription-checking for Wales to Sub-Committees for consideration and report. The Merioneth Sub-Committee is also to consider an alternative suggestion that the Committee should combine with Denbighshire for checking-purposes.

Carnarvonshire.—The Insurance Committee at its January meeting appointed Mr. Thomas Webster, chemist and druggist, Bangor, as prescription-checker at 50*l.* per annum. The cost is to be borne as to four-sevenths by the Committee, two-sevenths by the Panel Committee, and one-eighth by the chemists. Consideration of a deficit on the 1914 Drug Fund of 59*l.* was deferred until the final report of the Checking Sub-Committee is received.

Notes.

FEDERATED MEDICAL ASSOCIATION.—From Easter the Federated Medical Association will be located at Chesterfield, and all the national work attached to Medical Associations will be carried out there. It will be recalled that the Chesterfield District Medical Association caused much trouble to the local pharmacists at the passing of the Insurance Act.

WAR-PRICED DRUGS.—The Insurance Act Committee of the British Medical Association directs the attention, through the "British Medical Journal" (Supplement, January 30, 1915), of practitioners in general, and panel practitioners particularly, to a list of drugs and preparations which have recently increased very considerably in price, and which it commends should be prescribed with due discretion. The list includes: Salicylic acid, sodium salicylate, acetyl-salicylic acid, salol, liquid paraffin, lanoline, novocaine, thymol, eucaine, protargol, juniper oil, paraldehyde, vymol, phenazone, phenacetin, barbitone, and potassium salts.

Pharmaceutical Society of Great Britain.

Evening Meeting in Edinburgh.

R. J. P. GILMOUR, Chairman of the North British Branch, presided at a meeting held at 36 York Place, Edinburgh, on Wednesday evening, February 3, when the British Pharmacopoeia, 1914, brought six communications from members, after the reading of which there was a discussion by five speakers. The first communication was by the Chairman, and it dealt with

THE NEW B.P. AS IT AFFECTS OFFICINAL PHARMACY.

Mr. GILMOUR began by a review of the preface, remarking that there is still ample room for improvement of the book, and hinting that this can be secured by pharmacists giving direct representation on the Committee. He communicated the Society on its decision not to help again until such representation is secured. Mr. Gilmour then

spoke in succession of the legal and technological parts of officinal pharmacy which are affected by the B.P.—viz., (1) weights and measures, (2) the Pharmacy Acts, (3) the Sale of Food and Drugs Acts and the Merchandise Marks Act, and (4) technology. Under the first heading he questioned if the medical profession is ripe for the metric system, and objected to the General Medical Council's dictum as to the pharmacist's responsibility in cases of unusually large doses. He also pointed out that the B.P. is not uniform in regard to the apportionment of liquids, which are generally taken by volume, but sometimes by weight. He questioned if much can be said in favour of the recommendation to stop using the signs 5 and 5, but concluded under this heading that the metric system will be easier to operate than the imperial. The change of laudanum strength was the leading note in regard to the Pharmacy Acts part, and, referring to the Section 15 provision, Mr. Gilmour remarked in point of law it is sufficient to prove that the finished product conforms to B.P. tests and requirements. "Within these limits it is open to anyone to vary the B.P. formularies and processes as seems best to him." The third part of the subject gave the Chairman the opportunity of speaking of the value of systematic testing of drugs and chemicals, the arsenic and lead limits of the new B.P., and various other points. Referring to the synonyms and their legal significance, he said :

Out of the 790 separate articles in the B.P. only 125, or 15.8 per cent., have English synonyms, the majority being denoted simply by the English translation of the Latin or chemical name. This is sometimes starkly literal—e.g., borax honey=mel boracis; occasionally equivocal—e.g., oil of pine=ol. abietis; and in several cases restrictive—e.g., Gregory's powder=pulv. rhei comp. made with magnesia levis, to the consequent exclusion of the ponderous variety hitherto permissible and widely preferred on account of the freer miscibility with water of the ponderous pulv. rhei co. In a large class of cases there seems no adequate reason for the retention of English synonyms other than that if these were dropped the public might be supplied with an article of inferior quality—e.g., boracic acid=boric acid, liquefied carbolic acid=liquefied phenol. But why retain dilute prussic acid as a synonym for diluted hydrocyanic acid? In the aggregate, as compared with the B.P. 1898, the number of synonyms has been reduced and the synonyms simplified or rendered more specific—e.g., in the application of the qualifying "purificatus" to one of the B.P. ethers and its appropriate modification to alumen, borax, ol. terebinth, and saltpetre.

Under technology Mr. Gilmour first dealt with improvements upon the 1898 B.P., dealing with the monographs seriatim, the following being the more important fresh observations :

Adeps Benzoatus.—One per cent. of benzoic acid gives an equal, if not superior, product more expeditiously and at less expense.

Extracta Sicca.—It is questionable whether the dry extract of belladonna will satisfactorily replace ext. belladonnae viride in such unofficial but widely used applications as glycerin, belladonnae.

Syr. Ferri Iodidi.—One cannot congratulate the Pharmacopoeia Committee on the modified formula. There is "an intolerable deal" of glucose to the total weight of syrup. Moreover, if the official *modus operandi* is followed, much time is lost in filtering the mixture of the liquor and glucose. The addition of the glucose at this stage is, of course, intended to prevent the formation of oxyiodides. But the filtration of the hot liquor *per se* is so rapid that this reaction is negligible. Nearly thirty years ago I was instructed, when making the plain syrup for this preparation, to boil it for a few minutes in order that, by the formation of a trace of glucose, the finished product might be preserved. And we found this method, or the addition to the syrup of 1 in 1,000 of hypophosphorus acid, answered admirably. Conservation is hardly an adequate description of this example of official belatedness and involution of procedure.

Ung. Chrysarobin.—The replacement of benzoated lard by soft paraffin is presumably for the purpose of securing prolonged surface-action of the medicament, but pharmaceutically the result is unsatisfactory.

Ung. Picis Lig.—Still much too stiff, and it is difficult to understand why even the modified indurated preparation is retained.

Caffeina Citras.—The addition of the water is not necessary. Mass action with trituration completes the loose molecular combination, and if the powder is dried on a water-bath and sifted a fine pulverulent preparation is obtained.

Confectio Sulphuris.—From the officinal standpoint it is immaterial whether sublimed or precipitated sulphur is prescribed, but one is nonplussed by a change which seems superfluous.

Concluding, Mr. Gilmour said the B.P. 1914 is certainly superior to its immediate predecessor, but it is impossible to resist the feeling that it is another milestone on the road towards that parting of the ways where the productive or operative will be finally sundered from the distributive functions of practical pharmacy.

Mr. D. B. Dott followed with a paper in which he dealt with the monographs on

ALKALOIDS, CHLOROFORM, AND OPIUM PREPARATIONS.

In the course of this he compared the 1914 with the 1898 requirements—apomorphine hydrochloride, atropine and atropine sulphate, codeine, pelletierine tannate, pilocarpine nitrate, quinine salts, strychnine and its hydrochloride, opium and its preparations, and chloroform being commented upon. The changes were indicated in each case, and critical remarks made where appropriate, e.g.:

It seems curious that codeine phosphate should be official, while the more obvious muriate and sulphate are ignored.

“Diamorphine” as a convenient synonym for diacetylmorphine cannot be commended. It might have been well to note that diacetylmorphine is prone to decomposition both by alkalies and acids.

Exception must be taken to the solubility of strychnine hydrochloride in water as 1 in 60. It should be 1 in 38.

It is unfortunate that the synonym “Laudanum” should have been retained for the stronger tincture. Suggestions have been made to get over the difficulty by transferring the name to the liquid extract (which is of the old strength), or to make the name apply only to the 1898 tincture. I prefer the former. Practically all the alkaloids are in the extract, and, although the liquid extract contains less alcohol than the tincture, it may safely be considered as pharmacologically equivalent to the old tincture, and capable of bearing the name “Laudanum.” In the assay-process we are directed to set the mixture aside for twelve hours (exactly), which is an impracticable period of time. Presumably we are to understand not less than twelve hours. But no maximum period is stated, although it makes a difference whether an assay stands just over night or over a long week-end. It would have been quite easy to have stated a practicable time, such as eighteen to twenty hours, or the like; but the Committee, or their learned Referee, did not see it.

The excessive quantity of hydrochloric acid is retained in liq. morph. hydrochlor. This is useless; nor is there need for 25 per cent. of alcohol: it keeps quite well with 20 per cent.

The lowering of the specific gravity of chloroform 1.490-1.495 to 1.483-1.487 is of very doubtful advantage, and there was no need for this alteration. Unfortunately the Pharmacopœia adds: “Does not begin to boil below 60°”; but such chloroform does begin to boil below 60°, an appreciable proportion coming over at 58° to 60°.

Dr. J. F. TOCHER next spoke on

THE LIMIT-TESTS FOR ARSENIC AND LEAD.

Before so doing, he pointed out some inconsistencies in the official metric equivalents, and made some remarks on the c.c. and millilitre, expressing the hope that the latter, being more accurate, will be adopted by analysts and scientific chemists. The limit-tests resulting from excellent work done by Mr. C. A. Hill are sure to prove very valuable to chemical manufacturers and also to pharmacists, he said, as they have in these time-limit tests very carefully thought out and detailed methods of ascertaining the minute proportions of lead and arsenic present in metallic salts and some organic substances. Dr. Tocher commented in detail upon the tests and the official limits, remarking:

Colour-tests are subject to variation among different workers, due to errors of judgment. This matter has not received the attention it has deserved at the hands of analysts and others using such tests. A large series of observations made by myself and others in water-analysis, on the quantities of albuminoid ammonia as found by the

well-known Nessler test, shows a different range of variation by different workers. This work was carried out in view of the well-known results obtained by Professor Carl Pearson and his co-workers on errors of judgment in bisection experiments and in colour observations. The errors are not symmetrically disposed round the mean value for each operator, and analysts must therefore ascertain for themselves what degree of approximation they can get to theoretical amounts of lead and arsenic in standard solutions prepared. What analysts and pharmacists have got to consider in each case is whether the result obtained exceeds significantly the limit prescribed. As a particular example, $5\frac{1}{2}$ or 6 parts per million is not a significant difference from 5 parts per million. The purity prescribed, therefore, is purity within the limits of errors of observation. This, of course, is true not only of colour experiments, but of physical determinations of all kinds.

NOTES.

Mr. W. B. COWIE submitted notes on nomenclature, oils, and syrups. He dealt with Latin titles, mentioning a few which he considered to be incorrect, three that are out of date, and some others which he considered to be either inaccurate or which might be improved. He also suggested that in the official chemical nomenclature the generic noun should be converted into the corresponding adjective—e.g., Ferrosus Sulphas for Ferri Sulphas. The author next referred to the thorough revision of the characters and tests for fixed oils, and suggested that sublimed sulphur should be used instead of precipitated sulphur in the test for cottonseed oil. He also pointed out that in the appendices under methods of procedure for quantitative determinations the following slips occur in the analytical details:

- (1) Medium in which free acids are determined.
- (2) Time of saponification.
- (3) Refractive index should be taken at 20° C., instead of 40° C., as most records are at that temperature.

He suggested that the paragraph on “Determination of Refractive Indices” should be rewritten, and concluded with some remarks on syrups, stating that the addition of 10 per cent. of glucose to syr. ferri phosph. c. quin. et strych. would be a great improvement, and that the addition of 20 per cent. of alcohol to syr. rosae is absolutely necessary.

Mr. FRASER McDIARMID followed with notes on (1) research recognition, (2) active principles, (3) rejections and introductions, (4) assay-processes, and (5) the principle of “limits.” His remarks under the first heading were based on the B.P. adopting the suggestions of Greenish and Wilson as to cantharidin, of Farr and Wright on galenicals, and of C. A. Hill on calcium lactate. As to active principles, the following extract shows the trend:

Would you invite your friend to five-o’clock tea and consider the demands of hospitality satisfied if you poured into his cup a hot aqueous solution of caffeine coloured with burnt sugar for auld lang syne?

Mr. McDiarmid’s remarks on deletions were sardonically witty, and those on assay-processes comparative, critical, and general, a few practical points of detail being mentioned. Finally, in discussing limits, while deprecating the much-abused “about,” he insisted that one hard-and-fast figure for any one particular datum is a mistake, as results on the same thing by different competent workers are not always exactly the same.

A FEW GENERAL CRITICISMS,

by Mr. THOMAS STEPHENSON, concluded the series of papers. The author first spoke about doses, then about Indian and Colonial drugs, asking as to the latter by what process of etymology the compilers Latinised the Hindustani word “chaulmugra” into “oleum chaulmoogra”? In dealing with synthetics, he said that it was he who suggested “hexamine” several years ago as a suitable contraction for hexamethylenetetramine. Mr. Stephenson also referred briefly to alterations in strength and the abbreviations used in the Pharmacopœia, which, on the whole, is, he said, a step forward.

Dr. Sillars, Dr. Dobbin, Mr. David Gilmour, Mr. G. F. Merson, and Mr. W. S. Glass spoke after the communications had been read. Dr. SILLARS said, regarding the so-called archaic imperial system of weights and measures,

that the grain, the ounce, and the pint have been from the earliest times adopted by medical practitioners in his country, and it is very easy to use the system of dividing by two.

Evening Meeting in London.

The President (Mr. E. White) was in the chair at the meeting held at 17 Bloomsbury Square, London, W.C., on February 9. He was supported by Professors H. G. Greenish and H. Llewellyn Smith and the Secretary (Mr. W. J. Uglow Woolecock). There were about fifty persons present, including Mr. G. D. Bowie, Mr. J. O. Braithwaite, Mr. E. T. Brewis, Mr. A. Brown, Mr. Collins, Mr. F. W. Gamble, Mr. C. H. Hampshire, Mr. E. F. Harrison, Mr. A. Howell, Mr. W. L. Howie, Mr. A. R. Melhuish, Mr. P. A. W. Selfe, and Mr. H. Skinner.

The PRESIDENT briefly introduced Professor Llewellyn Smith, who has recently been appointed to the chair of chemistry in the School of Pharmacy, and then called upon him to read a paper on

ACETYLSALICYLIC ACID.

The work was undertaken to find out why a sample of acetylsalicylic acid produced disagreeable symptoms in a patient who took it, and also to see whether, as is sometimes stated, aspirin and acetylsalicylic acid are different substances. The method of preparing the chemical was referred to briefly, the possible impurities, and the question of hydrolysis. After mentioning Dr. Martindale's investigations on the hydrolysis of acetylsalicylic acid, the lecturer detailed the hydrolysis results he had obtained with six samples in the presence of water, potassium hydroxide, hydrochloric acid, and sodium carbonate. The main points brought out were that free salicylic acid is occasionally present, and that incomplete hydrolysis is caused sometimes by the use of benzene as a crystallising medium. One of the samples, obviously impure, was thought to contain acetyl salicyl salicylic acid, the amount of salicylic acid obtained on hydrolysis being more than required by theory. Differences in physical appearance were noted. There is not, he said, any difficulty in making pure acetylsalicylic acid.

A short discussion ensued in which the President, Mr. Gamble, Mr. Harrison, and Mr. Melhuish took part. In reply, Professor SMITH said he though the colour-test with chrome iron or ferric chloride a good means of detecting impure samples containing salicylic acid. The identification of the *para* acid is difficult, but this impurity is not now considered dangerous. The sample about which complaint was made was found to contain free salicylic acid.

SODIUM SALICYLATE AND ALKALIES.

The second communication was by Professor H. G. Greenish and Mr. A. E. Beesley, Ph.C., on "The Discoloration of Sodium Salicylate in Solution by Alkalies." Professor GREENISH, who read the paper, said that it has been known for some time that sodium salicylate in solution is discoloured by sodium bicarbonate, and deposits a black precipitate, but the cause of this has not been discovered. It was found that using physiologically pure sodium salicylate and sodium bicarbonate in the proportions usually met with in dispensing, the solution became yellowish-brown, and in course of time black. After a series of experiments the conclusion was reached that the coloration was due (a) to the action of the bicarbonate on the salicylate; (b) to the action of the bicarbonate on an impurity in the salicylate; or (c) to atmospheric oxidation. Experiments with a pure sodium salicylate (the hexahydrate) by recrystallisation showed that it behaves in the same way in solution in the presence of sodium bicarbonate as the physiologically pure salt. A colourless hexahydrate prepared from oil of sassafras and three samples obtained from commercial sources also gave the same coloration. Using the pure hexahydrate and varying the alkali they found slight differences, indicating that the coloration is due to something in the alkali. With normal sodium carbonate the

solution remains colourless for seven days; with sodium hydroxide the action was less than with the carbonate, the solution being only pale yellow at the end of three months. It was thought that the coloration might be due to carbon dioxide liberated from the bicarbonate, but a stream of the gas passed through the solution has no effect. On passing air through the solution of the salicylate in presence of sodium hydroxide, however, the coloration is produced quite rapidly. Next was tried the effect of sodium sesquicarbonate, and with this a more rapid darkening was found than with either the carbonate, bicarbonate, or hydroxide. Traces of iron were found in the sesquicarbonate, but the addition of traces of ferrous and ferric salts to the alkali used did not indicate that the darkening is due to the presence of iron. It is thought to be due partly to the oxygen of the air, as the colour appears much more slowly when the solution is made with air-free water. At the same time it is found that when the solution is kept in a small flask and the air removed by alkaline pyrogallic acid, the coloration still takes place. As to the use of reducing agents, they found that the coloration can be delayed by the use of sodium thiosulphate, sodium sulphite or bisulphite, hypophosphorous acid, etc. The change can be considerably delayed by the use of 1 grain of sodium thiosulphate or smaller quantities of sodium sulphite to the ounce; even $\frac{1}{10}$ grain of the latter in 8 oz. of the solution has a marked retarding effect.

In the discussion which followed it was stated that no suggestion can be made as to the composition of the black precipitate, and that it is hoped later to carry on the investigation to a further stage.

Winter Session of Meetings of Trade Associations.

(See also "Insurance Act Dispensing.")

Aberdeen.—A special meeting of the Aberdeen Pharmaceutical Association was held at the Robert Gordon's Technical College on February 2 for the purpose of discussing the *B.P. 1914*. Mr. John R. Reith (President) presided. The subject was introduced by Mr. Gilbert Simpson, Ph.C., teacher of pharmacy. The lecturer deplored the fact that the *B.P.* is getting more and more a wholesalers' book. The statement in the preface relative to doses was criticised, and it was felt that too much "onus" is placed on the chemist—partly in view of the reception accorded him in many cases when he ventures to follow the suggestion now made. It was held that the medical man should underline or initial unusual doses. The omission of concentrated liquors was referred to, and the lecturer suggested that the use of concentrated infusions should be legalised, with the exceptions of digitalis and buchu. Methylated liniments might have been included in the *Pharmacopœia*. An interesting discussion followed.

Blackpool.—The annual meeting of the Blackpool and Fylde Pharmacists' Association was held on February 5. Mr. Huddart (President) was in the chair, and there were ten other members present. Owing to the absence of the Hon. Secretary (Mr. D. J. Bailey) through illness, his report was postponed until the next meeting. The Hon. Treasurer presented the balance-sheet, which showed a balance in hand of 7*l.* 4*s.* 6*d.* The following officers were elected for the ensuing year: President, Mr. J. W. Huddart; Vice-Presidents, Messrs. H. M. Johnson and J. Laurie; Hon. Secretary, Mr. D. J. Bailey; Hon. Assistant Secretary, Mr. G. A. Clarke; Treasurer, Mr. W. L. Mayson; Committee, Messrs. Boothroyd, Greenwood, Kershaw, Sankov and Swift; Auditors, Messrs. J. F. Blackhurst and R. H. Speight; Drug Sub-Committee, Messrs. Huddart, Bailey, Boothroyd, Clarke, and Laurie. The meeting was then resolved into an ordinary meeting. The Committee appointed to meet the local doctors on the *New B.P.* reported that that work is to be considered in force at once. A letter was read from the local Belgian Relief Committee accepting the Association's offer of free Dispensing for Refugees.

Chemical Society.—A meeting was held in Burlington House, London, W., on Thursday, February 4, Professor W. H. Perkin, F.R.S., being in the chair. The first paper was by Messrs. G. Barger and E. Field on *The Oxidation*

of Aconitine. According to previous work, the oxidation of aconitine results in the production of a body oxonitine, but in rather poor yield. In these methods aconitine was treated at 0° C. with potassium permanganate; the so-formed aconitine permanganate was separated, dried, then suspended in 15-per-cent. sulphuric acid for about a fortnight. The authors find that by dissolving the aconitine in acetone it is only slowly acted on by potassium permanganate, but the presence of glacial acetic acid increases the action. Therefore they dissolve the aconitine in acetone, and after about a week add daily doses of potassium permanganate and glacial acetic acid. The product from this action is then suspended in water and saturated with sulphur dioxide. By this treatment oxonitine is obtained to the extent of about 90 per cent. of the theoretical quantity. The formula of this product is $C_{24}H_{23}O_9N$. According to Carr the formula is $C_{24}H_{31}O_9N$, while Brady gives it as $C_{22}H_{29}O_9N$. The authors are of the opinion that, though the analytical figures are somewhat different, yet these bodies are identical with that obtained by them. Professor M. O. Forster next read a paper on *Azotisation by Chloramine*, which was the outcome of an endeavour to elucidate the mechanism of Gries's reaction. Messrs. J. C. Phillip and A. Bromley also contributed a paper on the *Influence of Sucrose and Alkali Chlorides on the Solvent Power of Water*.

Exeter.—A meeting of the Exeter Association of Pharmacists was held on February 8, Mr. E. Lemmon being in the chair. Mr. P. F. Rowsell, in a letter regretting his inability to attend the meeting, said he believed there was a general understanding among most of the doctors in the city to continue the use of the British Pharmacopoeia, 1898, until the end of March, and he thought the Association ought either to issue a circular to the medical men or endeavour to have a meeting of them to arrange for the adoption of the B.P. 1914. The Chairman criticised the *New Pharmacopæia*, and said he could not see why, for instance, in the preparation of dilute sulphuric acid they should be directed to weigh the pure acid, and in the case of aromatic sulphuric acid they should be directed to measure it. Mr. Harris said the English method of weighing solids and measuring liquids had much to commend it in preference to weighing everything. Mr. Milton said he was convinced that if the metric system for weights and measures and the decimal system for coins is generally adopted, and all other systems abandoned, the public would learn to use it in a very few weeks. It was decided to communicate with the local Secretary of the British Medical Association, with a view to ascertaining the wishes of the Exeter doctors in regard to the adoption of the new Pharmacopœia. The question of the increased strength of laudanum was discussed, and it was pointed out by several members that there is still a demand for laudanum of the old strength, and that if the strength is suddenly increased it might be dangerous to those using the drug. Mr. Wippell Gadd pointed out that both the Council of the Pharmaceutical Society and the directors of the Chemists' Defence Association had decided to recommend to their members and shareholders respectively that the laudanum of the new Pharmacopœia be supplied, and that the signature of the purchaser be obtained, but that if it be found necessary to sell the 1898 preparation, the bottle should be labelled accordingly and the attention of the customer called to the fact. Mr. Harris moved that for the present the practice of the Exeter chemists should be to sell tr. opii, B.P. 1898, when laudanum is asked for, calling the attention of the customer to the fact. Mr. Milton seconded, and the motion was carried. It was decided to write to the Local Associations Executive Committee, asking them to call the attention of the Insurance Commissioners to the fact that the amount allowed for drugs supplied under the National Insurance Act is not sufficient.

Great Yarmouth.—A meeting of the Great Yarmouth Pharmaceutical Association was held on February 4, Mr. A. E. Richmond in the chair. Five other members were present. The question of *Earlier Closing* was to have been settled, but owing to the smallness of the meeting it was adjourned. The President read a letter from Mr. Harrison (Hull) in reference to German air raids.

Liverpool.—A meeting of the Liverpool Chemists' Association was held at the Royal Institution on February 10, when the President (Mr. H. Humphreys Jones, Ph.C., F.C.S.) read a paper on *Some Notes on the New B.P.*, which was postponed from the annual meeting owing to lack of time.

London (N.).—Mr. J. Hearle presided at a meeting of the North London Pharmacists' Association at St. Paul's, Holloway, on February 4. The Secretary (Mr. Skinner) announced that the "Script" shilling fund for the Belgian pharmacists had reached 207. 6s. 6d. The annual social for the benefit of the Pharmaceutical Benevolent Fund will

be held on March 23. A discussion took place on how the following prescription should be dispensed:

Tinct. camph. co. 5*ij.*
Mist. expect. ad. 5*xij.*

"As written" was the conclusion. Mr. Hugo Wolff then told the meeting *How to Make a Living*, or rather how to make business pay. As to salesmanship, especially those sales that begin in the shop, he said it is necessary persistently to extend the customer's attention, and not let it be confined to too small an area. Having once found what interests the customer, the next step is to encourage association by presentation of allied articles. It is a mistake to try to push a sale directly, as this usually arouses antagonisms; it should be done indirectly by talking round the article, imparting information so that mind and desire may come into line and the salesman seize the psychological moment. To make a good salesman it is necessary to be alert, observant, and able to create a convincing interest, even in a tablet of soap. The customer for the most part, especially if a lady, is out seeking impressions, and goods displayed to catch the eye are half the battle for the creative work of the art of suggestion. The response of the customer may often be measured by attention intelligently applied by the salesman. Mr. Wolff emphasised the necessity for making it a feature to change goods cheerfully, to practise honest pries and the cultivation of a bright and happy attentiveness to every whim and fancy of the customer; by so doing it is impossible not to make a living. There was a general and sparkling discussion, in which Messrs. Templeman, Hearle, Tocher, Bennett, Brunwell, Bromley, Jenkin, and Skinner joined. The meeting closed with the presentation of the spoons won in the shooting competitions of the last two months, the winners being Mr. A. T. Honiatt for December, and Mr. W. H. Auikland for January.

London (W.).—A meeting of the Western Pharmacists' Association was held in the Restaurant Frascati, Oxford Street, London, W., on February 10, the President (Mr. A. R. Melhuish) in the chair. The Chairman, in his opening remarks, offered a very hearty welcome to Mr. Edmund White, President of the Pharmaceutical Society, on his return to England. Mr. White suitably replied, and the President then reported that the appeal made by the Association on behalf of Belgian doctors and pharmacists had resulted in the collection of 120*l.* The credit of this splendid result, he stated, was largely due to the members of the Ladies' Committee, who had worked strenuously and had covered the whole of the ground of the Association. Mr. Melhuish then reported on Insurance matters and the work of the London County Executive, and a number of queries in regard to Insurance work were satisfactorily answered by Mr. G. A. Tocher. The President then introduced Dr. Manwood Walford, who delivered a lecture on *Minor Ailments of Children*. Dr. Walford dealt with the subject very fully, and his remarks were much appreciated.

Manchester.—At a Council-meeting of the Manchester Pharmaceutical Association, held on February 3, it was decided to discuss from various points of view the new B.P. at the monthly meeting in March. The proposed formula for *All Fours* was discussed, and the following recipe agreed upon:

Oil. menth. pip. ...	...	...	...	...	...	5 <i>xx.</i>
Ess. anisi (1 in 10) ...	...	...	...	...	...	5 <i>lxx.</i>
Tr. opii ...	...	...	...	...	...	5 <i>ss.</i>
Tr. camph. co. ...	...	...	...	...	...	5 <i>ij.</i>

This quantity (5*ss.*) is to be sold at 4*d.*

A circular is to be sent to the members for their approval. A report was received in connection with the Belgian Doctors' and Pharmacists' Relief Fund. The President reported the result of an interview with Mr. Woolcock regarding the *Manchester Scholarship*. With the probability of an increase in the monetary value of the scholarship there should be more entries. Mr. A. L. Blain, as representative of the Local Committee in connection with the administration of free medicine, etc., to dependants of sailors and soldiers, reported that over 1,300 prescription-books are now in use. Some chemists are dispensing fifty scripts a month. Sir Alex. Porter (Mr. Blain said) had spoken very highly of the services rendered in this matter by the pharmacists of Manchester.—The monthly meeting of the Association was held on February 10 at the Albion Hotel, when Mr. W. J. U. Woolcock (Secretary of the Pharmaceutical Society of Great Britain) delivered an address on *Pharmaceutical Service: Some Dangers and their Antidotes*. There were about seventy members present, and the visitors included eleven members of the Cheshire County Pharmaceutical Executive and the Hon. Secretary and several members of the Salford Pharmaceutical Association. Mr. Jas. Grier (President) made a few introductory remarks, and then Mr. Woolcock began his address. He dealt first with the dangers which pharmacists are likely to suffer in connection with the Phar-

aceutical service in carrying out their duties in Insurance work. The danger of forgetfulness should not be overlooked, and when it is considered that something like one hundred million prescriptions have been dispensed without a single charge of a serious nature being brought against the panel chemists, it is something to be proud of. Then there is the difficulty in regard to the Insurance areas, to which the antidote is their Executive at Bloomsbury Square. It must not be overlooked that it is the duty of panel chemists to educate the public that the Panel service is the best service the public can have, but confidence would only continue so long as they (the panel chemists) fulfil their duties to the utmost of their abilities. The antidote to many of the troubles experienced is supplied by the many conferences which are held weekly all over the country between the different local Medical and Pharmaceutical Committees. Mr. Woolcock caused some amusement by likening the medical man at the beginning of the Act to an average wife supplied with a cheque-book for the first time. The doctor seemed to think that so long as he had a good supply of prescription-forms he could keep on writing out as many scripts as he liked. The antidote to that is in the hands of the Panel and Pharmaceutical Committees, who can put a stop to excessive prescribing. He thought the use of the stock mixture was a device brought forward to cover up the extravagant prescribing in the past. He was pleased to find the pharmacists on the various Insurance Committees throughout the country so nobly doing their duty. He looked upon them as having done some of the finest work in the country. Mr. Woolcock also dealt with the adequacy of the Drug Fund and the interview with the Commissioners. Mr. Deakin (Northwich), Mr. Harry Kemp, Mr. F. W. Bates, Mr. A. L. Blain, Mr. W. H. Delye, Mr. Mallinson, Mr. Simmonds (Salford), and the President spoke, a vote of thanks being given to Mr. Woolcock.

Royal Institution.—Professor W. Crossley, F.R.S., delivered the Friday evening discourse on February 5, his subject being *Science and Industrial Problems*. He said that industrial development would not have been possible if the various problems had not been studied in the laboratory. Research, he added, is the soul of industrial prosperity. He referred to the fact that professors and institutions are not in touch with trade problems, but a small army of efficient chemists are ready to devote themselves to discovering or perfecting the details of chemical processes which manufacturers may require. Dealing with some recent inventions, he pointed out that Lord Rayleigh, in 1897, was the first to make nitric acid from the air—a discovery which has since been developed in Norway by Birkeland and Eyde. The new industry of fat-hardening is being carried on to a large extent in this country. Details of the methods were made public in the course of a patent-law case, and the lecturer proceeded to criticise the specification of Normann's patent, which was involved in the case. The work of Sabatier and Senderens on catalysts was explained, and the results shown of a series of experiments undertaken to find out the best conditions for conducting the process of fat-hardening. The manufacture of aniline colouring-matters was also dealt with, the use of mordants, and the various colours obtained by introducing fresh groups into the anthraquinone molecule. Accident and luck play a part in the work of the organic research chemist, but proper training is of the greatest importance.

Sheffield.—A general meeting of the Sheffield Pharmaceutical and Chemical Society was held at the Rooms of the Literary and Philosophical Society, Church Street, on February 10. Mr. J. Gilbert Jackson (President) in the chair. Mr. J. F. Simon, Ph.C., communicated a paper on *Coal and Coal-tar, and their Relations to the Pharmacist*. The lecture was illustrated by a series of lantern-slides.

Southport.—A meeting of the Southport Pharmacists' and Assistants' Association was held at the Glyde Café on February 9. Mr. J. Righton (President) was in the chair, and nine other members were present. A discussion took place on *The Necessity of Uniformity in Dispensing the Preparations of the B.P. 1914*, and the Secretary was instructed to convey resolution to the Secretary of the Southport Medical Society, that up to March 31 the preparations of the B.P. 1898 will be dispensed unless the preparations of the B.P. 1914 are specified. It was decided to notify by post all members if this plan is acceptable to the doctors. Further discussion took place on the necessity of adopting a *Uniform Price-list for Dispensing*, and the use of a code-word for marking prescriptions, so that there should be no difference in the prices charged for dispensing. Mr. Ratcliffe drew attention to the difficulty of knowing what could be sold or not be sold on Tuesday afternoon (an early-closing order being in force). He instanced *The Supply of Dentifrice*. Recently he had refused to supply a pro-

prietary brand of tooth-paste, and the customer had obtained no less than five tubes from other chemists on that afternoon. An opinion was expressed by Mr. Hare that, as the dentifrice in question was an antiseptic, and as such was used for keeping the mouth in a healthy condition, it ought to be supplied. Apparently this view is general, seeing that there was no difficulty in obtaining supplies on the early-closing day.

St. Vincent Association.—At the ninth annual meeting of this Association, held at Anderton's Hotel, London, E.C., on February 3, Mr. G. Dunnean Bowie (Duncan, Flockhart & Co.) was elected President; Messrs. F. W. Abbott (G. van Abbott & Sons) and Wilfrid Daniel (Baiss Bros. & Stevenson, Ltd.), Vice-Presidents; Mr. Walter Sanford (Dunnean, Flockhart & Co.), Treasurer; and Messrs. F. Crepin (Felton & Crepin), H. E. Curtis (Walton & Curtis, Ltd.), H. B. Everson (Hopkin & Williams, Ltd.), Harry Hickey (Parke, Davis & Co.), J. Barry Hopkins (Arnold & Sons), S. J. Massey (Meggeson & Co.), J. Merryweather (Oppenheimer, Son & Co., Ltd.), A. H. Millner (Sanger's), H. G. Mumford (F. Newbery & Sons, Ltd.), and C. F. Pett (C. J. Hewlett & Son, Ltd.), Members of Committee. Mr. J. R. Bailey, 11 Cosbey Avenue, Herne Hill, was re-elected Secretary. Mr. Bowie is an Aberdonian, and was educated at Gordon's College, after which he was apprenticed in the Union Street pharmacy, which was taken over some time ago by Boots, Ltd. He subsequently held situations in Stonehaven, Edinburgh, and Guernsey, having meanwhile (in 1886) passed the Minor examination. While in Guernsey he invented and patented a phosphated table-salt, and came to London to exploit it, but disposed of the patent-rights. He joined the representative staff of Duncan, Flockhart & Co. He takes the West and North-West districts of London, and is a welcomed caller. Mr. Bowie is a Scot of Scots, a Freemason, a good worker in social and sporting matters connected with the trade, and forgets everything else when on the green with his well-biased bowl making the winning shot. There are four Bowies on the Register of Chemists and Druggists; three of them are Mr. Bowie and his brothers, and they have a sister-in-law and a brother-in-law on it, while two of the new President's daughters are wending the pharmaceutical way.

Stockton-on-Tees.—A meeting of the Stockton-on-Tees Pharmacists' Association was held on February 8 in Tate's Café, Mr. G. R. Ellison (the President) in the chair. The Secretary (Mr. E. Gregory) gave a report of his visit to the Pharmaceutical Committee at Durham. He explained the method they had adopted for checking the N.H.I. scripts, and the arrangements that had been made with regard to the supplying of dressings for surgery use. The members present discussed various points relative to dispensing for dependents, and also matters relating to the new Formulary issued by the Durham County Insurance Committee. It was decided for the present that when laudanum is asked for that tr. opii, B.P. 1898, should be supplied and so labelled.

Ulster.—The annual meeting of the Ulster Drug-trade Association was held on February 3 at 11 Waring Street, Belfast, the President (Mr. James Tate) in the chair. There was a representative attendance. Mr. James Guiler (Hon. Secretary), submitted the annual report, which was of a satisfactory nature, and the President, in moving its adoption, dealt with the working of the Association during the twelve months. Mr. W. E. Wilson seconded the motion, which was unanimously adopted. Mr. Guiler, in the absence of Mr. W. J. Rankin (Hon. Treasurer), also presented the financial statement, which was unanimously adopted. Mr. James Tate, Royal Avenue, was unanimously reappointed President for the ensuing year; Mr. R. W. McKnight, Carlisle Circus, and Mr. J. D. Carse, Woodstock Road, were appointed Vice-Presidents; Mr. James Guiler, Ormeau Road, and Mr. W. R. H. Orr, Ormeau Road, were re-elected Hon. Secretaries; and Mr. W. J. Rankin, Waring Street, Hon. Treasurer. The new Committee was chosen as follows: Messrs. James Dundee (University Road, Belfast), W. J. Hardy (Davidson & Hardy), Wm. Haslett (Ballyfeigh), Wm. Martin (Antrim Road), D. Perry (Thos. McMullan & Co.), T. N. Moffitt (Crumlin Road), Samuel Suffern (Shankill Road), W. E. Wilson (J. & J. Haslett, Ltd.), and J. A. Woodsides (Ballymena).



MR. G. D. BOWIE.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, E.C., February 11, 6.30 p.m.

After the recent period of activity, business has turned quiet this week, but there is a firm undertone generally, and the bulk of price changes have favoured sellers. Values are, however, in many instances irregular, and several are quite nominal in the absence of stock. There are still many complaints as to congestion at the docks, but it must be remembered that much larger quantities of produce have now to be handled at the Port. Changes in chemicals include a further advance in alum. Epsom salts are likely to again advance, principal makers having withdrawn quotations. Copper sulphate is very firm; exports last month were good. Tartaric acid and cream of tartar on the easier side. Among the so-called fine chemicals there has been a run on phenacetin and phenazone, which are dearer. Salicylates still very firm and tending higher. Bromides are being offered at "cut" rates from U.S.A. Hexamine and hydroquinone rather easier. Mercury has been further advanced, but the market is a nominal one and difficult to deal in. Star-anise oil on "c.i.f." terms has been selling freely, also Japanese vegetable wax; balsam Peru is scarce and dearer on spot. Saffron has advanced about 4s., and senega is firmer with more demand. The Norwegian cod-fishing has not yet developed, but official figures are expected in a week or so; prospects appear favourable for a good catch. Lemon oil is unaltered. The principal changes are as under:

Higher	Firmer	Easier	Lower
Alum	Acetyl-salicylic acid	Aloes (Cape)	Cardamoms
Balsam Peru	Benzoin	Guaiaicum	Guaiaicum
Chiretta	Cocaine	(Siam)	Ipecacuanha
Lemon-juice	Copaiba	Gamboge	Orange peel
Mercury	Cotton-seed oil, cr. (pps.)	Hexamine	Sarsaparilla
Palm oil	Linseed oil	Hydroquinone	(Lima)
Petroleum	Menthol	Orange oil	
Potash & permang.	(c.i.f.)	(spot)	
Saffron	Phenacetin	Tartarie acid	
Senna (Tinn.)	Phenazone		
Turpentine	Senega		
	Wax, Jap. (c.i.f.)		

Cablegrams.

BERGEN, February 11.—The catch of cod amounts to 2,820,000, against 3,081,000 at the corresponding date of 1914, and the yield of steam-refined oil is 3,269 barrels, against 3,092 barrels. Market is firm at 10s. per barrel f.o.b. Bergen, or equal to about 11s. to 11s. c.i.f. London.

NEW YORK, February 10.—Business in drugs is active. Opium is steady at \$8.50 for druggists' in single cases. Peppermint oil in tins is steady at \$1.50. Menthol is higher at \$2.70. Senega is firmer at 37c. Cartagena ipecacuanha has advanced to \$2.00 per lb. Belladonna-leaves are also dearer at \$1.10, and hydrastis has advanced to \$4.85.

London Markets.

ACETYLSALICYLIC ACID.—Business has been done up to 7s. 6d. and since refused, 8s. being wanted.

AGAR-AGAR steady, with sellers of No. 1 Kobe strip at 1s. 5 $\frac{1}{2}$ d. and No. 2 at 1s. 4 $\frac{1}{2}$ d. per lb. c.i.f. for February-March shipment; business has been done at these prices.

ALUM has further advanced to 7s. 17s. 6d. per ton for lump, and to 8s. 7s. 6d. for powdered, on rail at works.

AMMONIA SULPHATE.—Quiet; grey 25-per-cent. is 13s. to 13s. 5s. net for prompt, London, naked, at works: Hull, 25-per-cent. prompt, 13s. 15s.; Liverpool prompt, 14s. 2s. 6d.; Leith prompt, 14s., less 3 $\frac{1}{2}$ per cent., in bags, f.o.b.

AMMON. SULPHOCYANIDE is offered at from 2s. 3d. to 2s. 6d. per doz. in 1-oz. bottles.

ANISE OIL (STAR) is steady, sellers of "Red Ship" brand quoting 4s. to 4s. 3d., and 3s. 6d. c.i.f. for February-March shipment; a good business has been done at 3s. 5d. c.i.f.

BALSAM PERT is dearer, with sales at from 8s. to 8s. 6d. per lb. net on the spot, the higher price being asked at the close.

BERGAMOT OIL.—Spot values remain from 12s. 9d. to 13s., and at 11s. 3d. c.i.f. for 38-per-cent. esters; there are cheaper offers about, but they do not apply to this percentage.

BROMIDES of American make are being offered for shipment from New York, including Potassium at 3s., Ammonium 3s. 1d., and Sodium 2s. 10d. per lb. net, ex warehouse, London. British makers quote 3s. 3d. net for potassium in 1-cwt. lots.

CAMPHOR (REFINED).—Japanese is steady, with sales of $\frac{1}{2}$ -oz. tablets at 1s. 5 $\frac{1}{2}$ d. c.i.f. for February-March shipment.

CASCARA SAGRADA.—Business has been done in new bark for February-April shipment at from 35s. 6d. to 36s. 6d. per cwt. c.i.f. In auction 109 bags imported in 1907 were limited at 42s. 6d., and for new bark 40s. was wanted.

CASSIA OIL steady, with sellers of 80 to 85 per cent. c.a. at 2s. 7d., 75 to 80 per cent. at 2s. 6d., and 70 to 75 per cent. at 2s. 5d. c.i.f.; spot price for 80 to 85 per cent. is 3s. 1d.

CINCHONA.—The shipments from Java to Europe during January amounted to 767,000 Amst. lb., against 1,528,000 in January 1914. The auction to be held at Amsterdam on February 25 will consist of 1,076 packages pharmaceutical bark, weighing 61,159 kilos. The first-hand stock at Amsterdam on February 4 consisted of 11,049 packages Government and 56,562 packages private bark.

CLOVES are steady, Zanzibar on spot offering at 6 $\frac{1}{2}$ d. For January-March and February-April shipment sellers quote 6 $\frac{1}{2}$ d. c.i.f. London, with buyers at 6d.

COCA-LEAVES.—The exports from Java to Europe during January amounted to 2,170 packages, against 4,355 packages in January 1914. The auction to be held at Amsterdam on January 25 will consist of 2,474 packages Java leaf, weighing 132,185 kilos.

COCAINE.—Business has been done in hydrochloride at 7s. 6d. less 5 per cent., but some ask 8s.

COD-LIVER OIL.—Our Bergen correspondent writes on February 1 that the first report from the new Lofoten fishing has just been published, and contains the following details regarding the size and condition of the fish compared with the corresponding date of the two previous years:

	1913	1914	1915
Weight of 100 cod (kilos)...	240 to 325	295 to 300	290 to 320
Number of livers (per hect.)	450	350 to 500	320 to 400
Oil percentage in liver.....	38 to 43	45 to 48	50

As it will be seen, the cod is rather large and the liver nice and fat. If only the weather will permit a regular fishing, the prospects are for a fair production of oil during the coming season. The quantities caught as yet are not worth mentioning. The tendency is very firm on the market, owing to the rising prices for industrial oils. To-day's quotation for prime non-congealing is 92s. per barrel f.o.b. Bergen, with an upward tendency (see cable for latest price). An advice from Bergen from another source states that the new fishing at Lofoten has just opened and the prospects are considered favourable. Lately there has been a good demand, and finest 1914 oil is offered at from 92s. to 96s. per barrel f.r. Hull, exclusive of war-risk. In London the bulk of agents are without quotations for new oil, and for finest non-congealing 1914 oil on spot the value is about 98s. to 100s.

COPAIBA.—The recent low level of values has given place to a firmer tone, importers asking 1s. 8d. for Maracaibo B.P.

COPPER SULPHATE is very firm at 27s. prompt and forward for the usual Liverpool makes. Exports for January were 5,213 tons, against 3,014 tons last year.

CREAM OF TARTAR is quoted at from 140s. to 145s. per cwt. spot for 98-per-cent. as to seller.

EPSOM SALTS.—Owing to the shortage of raw material, British makers have withdrawn all quotations, and it is probable prices will be higher when they are again in a position to quote.

GENTIAN on the spot is quoted at 30s. per cwt.

GERANIUM OIL.—Bourbon is quoted at from 10s. to 10s. 6d. per lb. on the spot; on account of drought higher prices are anticipated from Bourbon.

GLYCERIN.—The official price of British refiners is 104*l.* per ton for chemically pure s.g. 1.260 in cases, and 100*l.* per ton, on 5-ton contracts, but there are second-hand sellers of small lots at from 2*l.* to 3*l.* below these prices.

GUAIACOL CARB. is quoted at from 8*s.* to 8*s.* 6*d.*

HEXAMINE is quoted at from 2*s.* 10*d.* to 3*s.* per lb.

HYDROQUINONE is offered at the easier price of 8*s.* 6*d.* per lb.

ICHTHYOL.—Substitute is offered at from 3*s.* 9*d.* to 4*s.* as to quantity.

LEMON OIL exhibits no material alteration either in arrival or spot prices, which respectively are from 4*s.* 3*d.* to 4*s.* 6*d.* i.f. and 4*s.* 6*d.* to 5*s.* spot.

LYCOPODIUM.—Spot supplies are practically exhausted, and it is impossible to obtain further shipments from Russia or the time being.

MENTHOL.—The spot price is unaltered at 11*s.* 6*d.* per lb., at which business has been done, and for February-March shipment sales have been made at 9*s.* 6*d.* c.i.f., with 9*s.* 9*d.* asked for March-April; in combination with oil 12*s.* 6*d.* i.f. is quoted.

MERCURY has advanced twice since our previous issue, closing at 12*s.* 10*s.* per bottle, at which a little might be added.

METHYL SALICYLATE is quoted at from 3*s.* 3*d.* to 3*s.* 6*d.*

MINT OIL.—Firm, with sales of Japanese at 3*s.* per lb. i.f. for February-March shipment. Spot sellers quote 4*d.*

NEROLI OIL of finest French quality is quoted at from 3*s.* 6*d.* to 13*s.* per oz. as to quantity.

ORANGE OIL is unaltered at 5*s.* 9*d.* per lb. c.i.f., spot price being easier at 7*s.* 6*d.*

PALM OIL.—Lagos is strong and dearer, with sellers served; Liverpool is nominally 35*s.* 10*s.* and Benin 32*s.*

PEACH-KERNEL OIL.—Many of the usual sources are unable to offer owing to scarcity.

PEPPERMINT OIL.—A fair quantity of so-called Wayne County oil is arriving, but deliveries are considerably delayed; spot price is 7*s.* 3*d.* to 7*s.* 6*d.* The nominal price H.G.H. is 12*s.*, but for prompt delivery 12*s.* 9*d.* is asked. PETROLEUM has advanced 1*d.* per gal. to 9*s.* 2*d.* for Russian, 1*d.* for ordinary refined American, and 9*s.* 4*d.* for water-in.

PHENACETIN for prompt delivery has been in good demand, with frequent sales at 7*s.* 6*d.*, but at the close 8*s.* to 8*s.* 6*d.* the value. Higher prices are cabled from the U.S.A. day.

PHENAZONE is higher, nothing being obtainable under 11*s.*, and some ask 11*s.* 3*d.* to 11*s.* 6*d.*

PHENOLPHTHALEIN is quoted at from 8*s.* 6*d.* to 8*s.* 9*d.*

POTASH CHLORATE varies from 1*s.* 4*d.* to 1*s.* 7*d.* per lb., and is very scarce.

POTASH METABISULPHITE is offered at 70*s.* per cwt. net.

POTASIE PERMANGANATE.—The recent lower prices have given way to a much firmer tone. Some business has been done low 9*s.* this week, but it cannot be repeated, and at the 9*s.* prices, which are irregular, vary from about 11*s.* to 5*s.* for spot delivery. Germany has prohibited the export of potassium salts to neutral countries, but not much reliance can be placed on these embargoes.

POTASH PRUSSIATE is tending dearer at 1*s.* 1*d.* per lb., which has been paid.

PYROGALLIC ACID.—Resublimed crystals in 1-lb. tins is quoted at 8*s.* 6*d.* to 9*s.* per lb.

QUININE remains unaltered at from 1*s.* 1*d.* to 1*s.* 2*d.* for the usual brands of Continental sulphate.

RESORCIN is offered at 6*s.*

SAFFRON.—For finest Valencia quality importers ask 44*s.* per lb. net, an advance of about 4*s.*

SALICYLATES.—Business has been done at up to 8*s.* for good French sodium crystals, but one holder has refused to go to the figure. Salicylic acid has been sold at varying prices, including 6*s.* 6*d.* and 7*s.*, with 7*s.* 6*d.* asked in one instance.

SALOL remains unaltered at 6*s.*

SENEGA.—Firmer, with spot business at 1*s.* 9*d.* net, which is also been refused, 1*s.* 10*d.* to 1*s.* 11*d.* being wanted; i.f. prices are from 1*s.* 8*d.* to 1*s.* 9*s.* 6*d.* as to seller.

SELLAC remains quiet at from 62*s.* to 63*s.* for the usual standard of TN Orange, and at 63*s.* for fair AC Garnet. Prices are inactive.

SODA SALTS.—Carbonate in barrels is 45*s.*, and bags 42*s.* 6*d.* t. Bicarbonate in kegs on spot is 5*s.* 13*s.*, and casks 5*s.* 8*s.* Rustic, 70-per-cent., 10*l.* 2*s.* 6*d.*, and 60-per-cent. 9*l.* 2*s.* 6*d.* Strate is 11*l.* 10*s.* to 11*l.* 12*s.* 6*d.* for refined on spot, and

11*l.* 5*s.* for ordinary; Liverpool is 11*l.* and 10*l.* 15*s.* respectively. Bichromate is 3*s.* 6*d.* per lb., less 5 per cent. Hyposulphite in casks is 11*l.* per ton for pea-crystals and 9*l.* 10*s.* for ordinary.

TARTARIC ACID.—A trifle easier at from 1*s.* 5*s.* 6*d.* to 1*s.* 6*d.* per lb.

TURPENTINE has advanced about 1*s.* 3*d.* per cwt. on a strong market, American closing steady at 42*s.* 4*s.* 6*d.* per cwt. A good business has again been done.

WAX, JAPANESE, is dearer, the sales including March-April shipment at 47*s.* to 47*s.* 6*d.* c.i.f.: a good arrival business has been done lately. The spot value is about 65*s.*

London Drug-auctions.

Commercial Sale-rooms,

Mincing Lane, February 11, 1915.

A fair quantity of goods was brought forward at the auctions of new and second-hand drugs, but very little sold, and changes in value were few. Cape aloes were the turn easier, firsts being held above buyers' ideas, but some sold privately. Benzoin was steady for Sumatra, but for Siam, although no sales were made, rather easier prices would be accepted. Cardamoms met a flat market, with a fair selection on offer, and rates fully 3*d.* cheaper. Dragon's-blood was firmly held, but failed to sell. Gamboge a shade easier for Siam, and in honey a fair business was done, little Jamaica being offered. Johore ipecacuanha was one of the few features of the sale, a substantial reduction being taken as compared with the price asked for Rio. Myrrh was of no interest. Rhubarb quiet and plentiful, with a generally firm undertone. Grey Jamaica sarsaparilla was firm and scarce, native Jamaica being neglected. Lima was easier, and Tinnevelly senna sold at an advance of 1*d.* Beeswax flat generally. The following table shows the quantity of goods offered and sold:

	Offered	Sold		Offered	Sold
Aconite root (Jap.)	10	0	Ipecacuanha—		
Aloes—			Cartagena	22	0
Cape	105	37	East Indian	40	20
Curaçao (cs.)	6	6	Matto Grosso	4	0
Balsam tolu	11	0	Minas	6	0
Belladonna-leaves	20	0	Lime oil (W.I.)	4	0
Benzoin—			Liquorice-root	90	0
Palembang	58	0	Mastich	6	0
Siam	31	0	Myrrh	13	0
Sumatra	70	12	Olibanum	45	0
Buehu	16	0	Orange-peel	26	0
Calumba	84	0	Orris-root (Mog.)	20	0
Camphor (ref.)	43	0	Puree	3	0
Canella alba	4	0	Quince-seed	3	0
Cannabis indica	14	0	Rhubarb—		
Cardamoms and seed	357	11	Chinese	67	17
Cascara sagrada	381	0	Sandarac	29	0
Cascarilla	9	*3	Sarsaparilla—		
Cashew-nuts	54	0	Grey Jam	9	9
Cinchona	13	0	Lime Jam	21	4
Cinnamon oil	4	4	Native Jam	19	1
Coca-leaves	26	0	Senna and pods—		
Colocynth-pulp	4	4	Alex.	55	1
Cubeb	70	0	Tinnevelly	332	332
Divi-divi	56	0	Tamarinds (W.I.)	37	0
Dragon's-blood	16	0	Thymol (cwt.)	1	0
Elemi	13	0	Tonka beans	6	0
Ergot	17	0	Tragacanth	16	0
Eucalyptus oil	20	0	Turmeric	870	17
Gamboge	20	1	Wax (bees')—		
Guaiacum	7	1	Abyssinian	153	0
Gum acacia	347	0	China	20	0
Gum aceroides	14	0	East African	16	0
Honey—			East Indian	78	*7
Chilian	20	15	Egyptian	43	0
Cuban	20	0	Jamaica	35	0
Jamaica	12	12	Japanese	25	0
Nassau	8	8	Morocco	40	0
St. Lucia	7	7	Mozambique	36	0
South America	39	0	Nyasaland	121	0
West Indian	3	3	Spanish	29	19
Kamala	2	*1	Venezuelan	5	0
Kola nuts	5	0	West Indian	2	0
			Zanzibar	58	0

* Sold privately.

ALOES.—Cape was flat and the turn easier; good hard firsts were held at 34*s.*, but subsequently sold privately at 33*s.* In auction, fair hard bright firsts sold at 32*s.*; good seconds, slightly drossy, at 31*s.*; ordinary seconds at 29*s.* 6*d.*; and common dull at 25*s.* 6*d.* per cwt. Six cases dark coarse livery Curaçao in cases sold at 70*s.* per cwt.

BALSAM TOLU of fair hard quality was bought in at 2*s.*; a bid of 1*s.* 9*d.* is to be submitted.

BENZOIN.—Six cases Sumatra of common very false packed of old fracture and country cut sold without reserve at 6s. 15s. per cwt. Under usual conditions six cases of fair medium Sumatra seconds, slightly woody, with bold white scattered almonds, sold at 7s. 15s. per cwt. Siam was offered at rather cheaper rates, comprising new crop, fair small to bold blocky yellow almonds at 18s., small to medium ditto, 16s., pea and bean size 14s., siftings in block 10s. to 8s., and hard brown dust in block 5s.

BUCHU.—Flat; for fair, slightly stalky, to good clean green round from 5s. 2d. to 5s. 6d. is the value, with ordinary yellowish down to 4s. 8d. to 4s. 10d. Good green longs were held at 4s. 3d., and stalky at 4s.

CALUMBA.—For 20 bags of small to bold yellowish, washed and sifted, a bid of 25s. 6d. is to be submitted.

CAMPHOR (REFINED).—Twenty-five cases 2½-lb. Japanese slabs were bought in at 1s. 9d.; 18 cases 1-oz. tablets were limited at 1s. 8½d.

CANNABIS INDICA.—Genuine Bombay tops are obtainable at 6s.; for Marinagoa the price is 2s. 6d., and siftings 1s. 6d.

CARDAMOMS met with a flat market, a small business being done at a decline of fully 3d. per lb., including good bold yellowish pale Ceylon Mysore at 4s. 6d., fair bold pale smooth 4s. 2d., small to medium brown Ceylon Mysore 3s.; Seed realised 3s. 6d.

CINNAMON OIL.—Four cases, of which no sample was shown, sold at from 3s. to 3s. 1d. per lb.

COLOCYNTH.—Four bales of brown, very discoloured and dusty, pulped sold without reserve at 9½d. per lb., being very scarce.

CUBEBES.—A lot of 49 bags fair greyish genuine, a little stalky, were limited at 8s. 10d. per cwt; for 11 bags of Java of doubtful quality 6s. 10s. was wanted.

DIVI-DIVI.—A lot of 56 bags fair were limited at 14s.

DRAGON'S-BLOOD.—Four cases of good reboiled Singapore lump, with a few dull pieces, were limited at 20s., and eight cases dull pickings from the reboiled at 7s., a bid of 6s. 15s. being refused; three cases of dull bag-shaped lump were held at 7s. 10s.

ELEMI.—Thirteen cases fair white paste were bought in at 50s.

GAMBoge.—Slightly easier; a case of fair Siam pipe, slightly blocky and mixed fracture, sold at 12s. 15s. per cwt.

GUAIACUM.—A barrel of fair glassy block sold at 1s. 2d.

GUM ACACIA.—Seventeen bags fair Ghatti were held at 27s.; 310 packages red Barbary gum were limited at from 15s. to 18s. as to quality.

HONEY was in fair demand; 12 packages Jamaica—all that offered—sold at 22s. to 22s. 6d. for brown setting; 7 packages St. Lucia sold at 21s. 6d. for brown set (ullaged 15); 3 casks West Indian at 21s. for fair pale set; 8 barrels Nassau at 20s. to 22s. for brown set, and 15 barrels yellowish set Chilean at 23s.

IPPECACUANHA.—Lower. The new lot of 40 bales Johore was brought to the hammer, the quality showing a distinct falling-off, the drug being leaner and unsifted, with a more or less greyish colour. Importers, as usual, being willing to sell, a substantial decline of about 3s. on the price asked for Matto Grosso was accepted, 20 bales selling at from 12s. 10d. to 13s. 2d. per lb. The last price paid in auction on October 1 was 7s. 8d. Of Matto Grosso, four bales only were shown, consisting of dull fair to grey, which were bought in at 16s. to 17s. per lb.; for five bales ordinary lean Minas the retiral price was 16s., with one seller at 14s. Cartagena was in plentiful supply, but neglected, the value of fair average quality being 9s. per lb. The bought-in prices were from 10s. to 10s. 6d.

KAMALA.—The value of fair quality is 9d. per lb., at which small sales have been made.

LIME OIL.—Four cases hand-pressed Dominican and Grenada were bought in at 8s. 6d. per lb. No distilled offered. Privately the first-hand price is 2s. 6d.

MASTICH.—For a bag of yellow tear 4s. was wanted, but rather less will buy.

MYRRH.—A lot of 13 packages glassy sorts of Somali character were bought in at 52s. 6d. Privately, from 50s. to 52s. 6d. is quoted for fair Aden sorts.

OLIBANUM.—Fair pale drop is obtainable at 40s., at which price private business has been done.

ORANGE-PEEL.—New-crop Maltese strip is fairly plentiful and obtainable at 1s. 9d. per lb.

PUREE.—Two cases good bright yellow E.I. offered without reserve, and taken out in the absence of competition, a sporting bid of 2s. being made.

QUINCE-SEED.—Three bags of fair Portuguese were limited at 2s. 1d. per lb.

RHUBARB. met with a fair demand, principally for High-dried. Medium to bold round horny with three-quarters good pinky break sold at 10d. per lb., and small round at 9d. Two cases of bold flat High-dried, with three-quarters good pinky fracture, sold at 1s. 7d., and small to medium at 1s. 6d. Medium to bold round *wild* Shensi with three-quarters greyish pinky fracture was bought in at from 4s. 9d. to 5s., and bold round Canton with three-quarters good pinky fracture at 4s. per lb.

SANDARAC.—For 14 bags of small dusty pale Morocco 82s. 6d. was wanted.

SARSPARILLA.—Grey was firm, nine bales of fair, also part rough, selling at 1s. 11d. Two bales Lima-Jamaica realised 1s. 6d. for ordinary, being cheaper, and two bales fair realised 1s. 8d. per lb. A single bale of dull red Native Jamaica realised 10d.

SENNA.—Tinnevelly sold with good competition at an advance of 1d. per lb. Fair to good bold green leaf sold at 6d. to 8d., fair medium greenish 4½d. to 5½d., common to ordinary yellowish, part stalky leaf, 3½d. to 4½d. *Pods* sold at from 2½d. to 2½d. for dark to fair; six bales dark and sea-damaged sold at 2d. A bale of very pale Alexandrian pods, slightly torn, sold at 1s. 6d.; fair, slightly broken, greenish leaf was bought in at 8d., and siftings at 6d. per lb.; 10 bales dark Mecca pods were held for 8d.

THYMOL.—Four tins of 28 lb. each, consisting of mostly blocky and opaque quality (not B.P.), were bought in at 25s. per lb., no response being made to a suggestion of 21s. Privately B.P. quality is quoted 24s. to 24s. 6d.

TONKA-BEANS.—Six cases Para offered, the value of fair black being 2s. 4d., and ordinary, part foxy, 1s. 4d.

TURMERIC.—Seventeen bags fair Madras finger sold at 19s.; Cochin split bulbs were held at 15s. Market is now well supplied with turmeric.

WAX, BEES. met a flat market; 19 packages Jamaica were bought in at 8s. 5s. for ordinary, and 16 packages at from 8s. 7s. 6d. to 8s. 12s. 6d.; 145 bags Mozambique were limited at 6s. 15s. to 7s. per cwt., and 153 bags Abyssinian at 6s. 15s. A lot of 19 bags, probably Spanish sound and in good order, sold without reserve for account of whom it may concern at 5s. 10s. per cwt.

Arrivals of Chemicals and Drugs.

During the period February 4 to 10 inclusive the following produce has arrived at the principal English ports. Goods in transit are not included; the figures denote packages where not specifically described:

Acetate of lime (Boston) bgs. 2,550	Cassia ligncea (Canton) 400
Acetic acid (Rotterdam) cks. 39, blns. 58, (New York) brls. 161	Chemical products (Boston) brls. 54, (Honfleur) pkgs. 13, (New York) pkgs. 179
Acetic anhydride (Treport) cphys. 8	Chillies (Beira) bgs. 13
Acetone (Philadelphia) dms. 725	Chlorophyll (Gothenburg) cks. 5
Albumen (Genoa) es. 20	Cinchona (Colombo) bls. 11
Alcohol (Buenos Ayres) drms. 264	Citric acid (Marseilles) brls. 36
Alcohol wood (Philadelphia) dms. 66	Cochinchina (Teneriffe) 2
Almond substitute (Rotterdam) es. 80	Coconut oil (Singapore) pns. 106, brls. 144, es. 3,000, (Marsailles) brls. 290, (Cochin) pps. 162, cks. 214, es. 300, (Galle) cks. 348, (Amsterdam) es. 190, (Tanjong Priok) es. 3,000, (Colombo) pps. 512, pns. 74, hls. 13, es. 150
Aloes (Mossel Bay) es. 30, (New York) es. 88	Cod-liver oil (Rotterdam) es. 65, (Christiania) brls. 40
Alum (Rotterdam) cks. 25, (St. John, N.B.) es. 28	Cream of tartar (Marseilles) cks. 149, (Bordeaux) cks. 46, (Genoa) brls. 8, cks. 2, (Palermo) cks. 78, (New York) kgs. 60
Ammonia anhyd. (Baltimore) cyl. 175	Cubeb (Amsterdam) bgs. 15
Aniline dyes, colours, etc. (Treport) cks. 8, (Rotterdam) cks. 85, pkgs. 43, (Genoa) brls. 42, cks. 26, (Leghorn) cks. 97, (Boulogne) es. 26	Cuttle-fish bone (Bombay) bgs. 100
Anatto (Bordeaux) cks. 10	Dextrin (Rotterdam) bgs. 40
Antimony, crude (Shanghai) pks. 2,800	Dioxygen (New York) es. 520
Apricot-kernels (Bombay) es. 8	Drugs, etc. (New York) pkgs. 975, (Boulogne) es. 61
Barium oxide (Rotterdam) 19	Essential oils (Rotterdam) bkt. 8, (Marseilles) es. 18, (New York) es. 143, (Messina) ½, es. 19, (Palermo) pkgs. 29
Buchen (Cape Town) bls. 10	Eucalyptus oil (Melbourne) es. 186, (Colombo) 97
Cajuput oil (Amsterdam) es. 5	Farina (Holland) bls. 1,985
Calcium carbide (Fredrikstad) dms. 600	Formaldehyde (New York) brls. 40
Camphor (Kobe) es. 200	Formic acid (Rotterdam) es. 85, cks. 22, (Genoa) btl. 50
Camphor oil (Kobe) es. 20	Galls (Alexandria) 63, (Hankow) 150
Cantharides (China) 25	Gelatine (Honfleur) es. 45, (Genoa) 20
Cardamoms (Colombo) es. 61; seed 12, (Calicut) 51	Ginger (Bombay) bgs. 146
Caraway-seed (Amsterdam) bgs. 50	
Casewin (La Pallice) bgs. 67, (Wellington, N.Z.) 280	
Cashew-nuts (Bombay) es. 99, (Mangalore) es. 204	

lycerin (Bilbao) dms. 10, (Buenos Ayres) dms. 50
lucose (New York) brls. 1,080
lycophytoline (New York) 67
lum acacia (Bombay) bgs. 30, (Suz) bgs. 288
lum copal (Macassar) bgs. 789, (Rotterdam) 200, (Singapore) 50
lum damar (Singapore) cs. 123
lum kauri (Auckland) bgs. 859
lum, unenun. (Bombay) pkgs. 184, (Amsterdam) cs. 19
fenna leaves and powder (Alexandria) bgs. 36
lebres (Suz) bgs. 6
lony (Amsterdam) brls. 19, (Honfleur) pkgs. 30, (Pisco) brls. 250
ndigo (Bombay) cs. 44, (Batavia) cs. 6, (Madras) chts. 347, (Madras) cs. 60, (Calcutta) 572, (Alexandria) brls. 6, cks. 156, cs. 28, (New York) serons 16
aetic acid (New York) brls. 5
ad acetate (New York) brls. 8
lime-juice (New York) pps. 6, dms. 8, pns. 93, (Trinidad) cks. 4
limo oil (Trinidad) cs. 2
linsed (East Indian) bgs. 81,025
liquorice-paste (New York) cs. 200
liquorice-root (Malaga) bgs. 22
lithopetrie (Rotterdam) cks. 124
agnes. chlor. (Rotterdam) cks. 37
agnesite (Madras) pkgs. 1,635
lenthol (Japan) cs. 55
lereury (New York) bott. 600
mineral-waters (Kobe) cs. 200, (Marsilles) cs. 890, (Barcelona) cs. 30
lint oil (Yokohama) pkgs. 10, (Kobe) 60
lyrrh (Aden) bgs. 40
nut oil (Rotterdam) cks. 4
nux vomica (Cochin) bgs. 240, (Calcutta) 98
libanum (Bombay) cs. 119
livo oil (Bordeaux) cs. 304, (Marsilles) cks. 65, cs. 131, (Tarragona) bgs. 6, (Seville) bgs. 365, (Malaga) dms. 30, (Leghorn) pkgs. 218
lupin (Bombay) pkgs. 162, (Calcutta) 15
range-peel (Malta) cs. 87, (Marsilles) 14, (Seville) 17
orechella-weed (Oporto) 10
oxalic acid (Rotterdam) cks. 19
palm-kernels (W.C. Africa) bgs. 11,754
palm oil (W.C. Africa) cks. 2,757
papain (Colombia) cs. 27
peppermint oil (New York) cs. 40
perfumery (New York) cs. 73, (Calais) pkgs. 11, (Dieppe) 12
perolatum (New York) brls. 245
Pharmaceutical products (Genoa) cs. 300

Heavy Chemicals.

February 10.

Returns of imports and exports for the past month may be regarded as satisfactory. Inquiry for heavy chemicals is still confined to early deliveries, although it is argued in some quarters that prices are inflated. Sulphate of copper as advanced, it is affirmed, more than is necessary, as compared with the raw metal. Still higher prices are asked however, and current quotations are from 28*l.* 10*s.* 6*d.* to 28*l.* 12*s.* 6*d.* per ton delivered Manchester. In American cream acetate of lime there is little doing, as high freights prevent importation. Quotations are nominally 11*l.* 10*s.* per ton. Lead salts are steady. White English acetate is 6*l.* 10*s.* per ton, no foreign offering; brown, 31*l.* 10*s.* per ton; nitrate of lead, 30*l.* 10*s.* to 31*l.* Chlorate of potash is higher at 1*s.* 2*d.* to 1*s.* 3*d.*; soda unchanged. Yellow russiate steady at 1*s.* 1*d.* per lb. Carbonate of potash is 36*l.* per ton for 90-per-cent. Cream of tartar and acids are unchanged. There is not much doing in sulphate of ammonia owing to the difficulty of shipment. Quotations are 13*l.* 10*s.* to 13*l.* 12*s.* 6*d.* for spot and forward f.o.r.

Manchester. Benzols are unchanged, and carbolic acid firmer.

A Lancashire trade correspondent states that an endeavour is being made to form a combination among the British producers of "heavy" chemicals. It is not proposed to form one huge joint-stock company, but, rather, a mutual protective and defensive association, with particular regard to the retention, after the close of hostilities, of the volume of business which has been captured or re-captured from the German and Austrian producers of alkalies, bleaching-powders, cyanides, arsenic, sulphate of copper, and other "heavy" chemicals, including some raw and intermediary products used in the aniline-dye industry, worked from coal-tar and sulphur bases. It is proposed to work under friendly arrangements with the Government-aided company, British Dyes, Ltd.

In the absence of German competition, leading British makers of "heavy" chemicals are now very busy, and one firm is said to have orders for three years; but all the British makers of "heavy" chemicals are not in such a happy position, and, although the selling prices of the finished articles have been raised considerably since the commencement of the war, the shortage of labour and the dear level of raw materials are serious factors in the situation. The formation of such an association as the one now proposed will, it is contended, give the industry much more stability, and enable them effectively to face and meet any situation which may arise on the conclusion of the war.

Continental Drug and Chemical Markets.

The following notes chiefly refer to the Hamburg and Berlin markets of January 23 and 24:

AMYL PREPS. advanced by m.30 per 100 kilos. at the end of December, and by m.15 on January 15. Technically pure *Amyle acetate* is quoted m.310 and chemically pure m.340. *Amyle alcohol* is m.375 for 128° to 132°, and m.405 for 130° to 132°.

ANISE.—Russian has advanced on account of increased demand, m.95 per 100 kilos, being quoted.

ANISE OIL (STAR) is offered at m.15 per kilo.

ASBESTOS.—Mining operations in the Urals have come to a complete stop as no exportation to Germany is allowed.

BIRCH-TAR OIL.—Russian has advanced slightly on account of the increased demand, and is quoted at m.40 per 100 kilos.

CEVADILLA-SEED is lower at m.165 per 100 kilos., owing to arrivals in Hamburg.

COPPER SULPHATE is quoted at from m.77 to m.80 per 100 kilos.

ELEM.—Neglected, but the small stocks are offered cheaply; m.80 to m.84 has been paid for first quality, m.76 to m.78 for seconds; finest white has been sold at m.86 to m.88.

FORMIC ACID.—Makers have advanced the price of pure by 10 per cent., and the technical product even more.

GUM ACACIA is firm, with natural Kordofan offering at m.135 and Senegal m.125 per 100 kilos.

GUMS (VARNISH).—Business is dull in hard *Copal* owing to the advanced price of turpentine. It is thought that the Congo copal chiefly warehoused in Antwerp on German account will shortly be conveyed to Germany, so that stocks will enable dealers to fill orders. Fair hard copal is quoted m.210 to m.190. Many cheaper qualities are obtainable, such as Kiesela fage (Gabun), m.125 to m.95; Kamerun, m.95; Madagascar chips, m.35. Best Sierra Leone has been sold at m.500 to m.620, ordinary at m.350, extra hard Demerara m.230 to m.250, hard Manila m.140, half-hard Manila m.110. Soft Manila soluble in spirit is active, but only the best qualities are to be had. *Damar*.—Demand is active at high prices, up to m.275 having been paid for Batavia A, m.265 for B, m.245 for C, and m.215 for D. Padang seconds is m.152, firsts ditto m.215 to m.195, and selected m.240.

OILS (FIXED) AND FATS.—Rather more demand in consequence of freer offerings. Dutch *Linseed* m.86, German m.93. *Palm-kernel*, m.138 (second-hands); German *Coconut*, m.140; English refined *Cottonseed*, m.98. Several parcels of *Castor* oil have arrived; first pressing is m.240. *Soya-bean*, m.100; *Hankow Wood* quiet at m.95; *Lagos Palm* quiet at m.120; *Rapeseed*, m.141; *Earth-nut*, m.118 to m.120. *Fatty acids* of linsed oil (German), m.91.50 to m.92. *Maize* unobtainable. *Tallow* firm; technical is m.120 to m.130, and food-tallow m.130 to m.140—all per 100 kilos.

OXALIC ACID AND OXALATES.—The Convention has provisionally fixed the following prices for 1915: Oxalic-acid crystals, m.65; powdered, m.75; potassium-oxalate crystals, m.88.50 per 100 kilos.

PLATINUM.—The value has greatly diminished, as there is practically no demand in Russia.

SANDARAC.—First quality has been sold at m.188 to m.195, and ordinary at m.156 per 100 kilos.



Memoranda for Correspondents.

Communications should be accompanied by the names and addresses of the writers, otherwise they cannot be dealt with. Queries by subscribers on dispensing, legal, and miscellaneous subjects connected with the business are replied to in these columns if they are considered to be of general interest.

Correspondents are requested to write each query on a separate piece of paper. Every endeavour is made to reply to queries without delay, but insertion of the replies in "the next issue" cannot be guaranteed, nor, as a rule, can they be sent by post.

Letters submitted for publication (if suitable) should be written on one side of the paper only. Their publication in "The Chemist and Druggist" does not imply Editorial agreement with the opinions expressed, even when the writers use a "nom de plume."

Complete and systematic indexes of the "C. & D." are presented with the last issues in June and December each year. Every subject dealt with week by week is included, and correspondents are advised to refer to these and the "C. & D. Diary" before asking the Editor for information, so as to save time.

"The Outlook."

SIR.—My recommendation of Mr. Mack's ledgers, sincere in purpose and intention, had nothing in common with the ideas of advocates of girl labour. Apprentices are not labourers; women and girls may do just as they please, in so far as I am concerned. By the way, surely Jay Mack is very wide of the mark when he says there are 2,000 women on the Register of chemists and druggists.

Yours truly,
G. E. OLIVER.

Window-dressing for Chemists.

SIR.—I take exception to "Eastern Counties" over cost of displays in his letter. His idea is to let firms make displays, and don't trouble to be original. Now, this originality is the keynote to success, and while Mr. Jones's expense seemed high, it could, with modifications, be spread over other displays, and so lessen the cost of each window. The cost of window-displays should be placed to the advertising account, and when chemists realise this there will not be the hesitation about making smart and original windows. All advertising experts agree that to obtain right results this advertising must be continued from day to day, and not done in spasmodic fashion. The one-thing-at-a-time gets home much better than filling the window with stock, and it is surprising how easy this can be done if only a little forethought is observed. I will try to show some time later by means of photographs how this can be done.

Yours faithfully,

VERB. SAP. (259/42.)

Chemists, "Patents," and Profits.

SIR.—"Forty Years' Subscriber" wishes the opinion of your readers to be expressed, not so much on the profits gained by retailers as on the difficulties put in the way of proprietors by themselves (the chemists). Personally, I have used the phrase mentioned in "F. Y. S.'s" letter to commercialists who have called with various products. Why? Because they were offering nothing really new, but some substitute for an already well-advertised article, and expecting the chemist to take it up because there was more profit to be gained if he succeeded in selling it. And there's the rub! The chemist was to introduce this product, spend his time eulogising it, and wind up by saying that "it's just as good as so-and-so," which is largely advertised. I have twenty years' experience of advertised and non-advertised articles, and am convinced that, while the former may not give all the profit one wishes, they turn over three, four, or six times a year, where the latter may never turn till turned out at a loss. My motto is: When a customer asks in no hesitating manner for a well-advertised article, let him have. Be sure he has read about it, or knows something of it by recommendation or otherwise; and if you by your smart salesmanship switch him on to something else, disappointment to him and loss to yourself will result. Take this as a soother, anyone whom my remarks may grieve: A chemist's business is not all patents; there are other things which the "patent" customer needs, and where will he get them? Where he gets his "patents"!

Yours truly,

TWENTY-YEAR MAN. (259/93.)

SIR.—Your correspondent "Forty Years' Subscriber" raises an interesting point. It all depends on what sort of disease his proprietary cures. If it is a common ailment, such as dyspepsia, it would probably pay him best to advertise largely and cut the chemist's profit to a minimum. But if it is for an ailment, such as piles, that is not usually mentioned in polite society, it will pay him better to give the chemist a good bonus, and so make it worth while for the chemist to find a place for it on his counter. In case of such a remedy, a counter-display, if it consist only of an explanatory card and a single package, is better than a window-show, because the sufferer ("once bitten, twice shy") has probably not much faith in advertised cures for his trouble; however, when he sees the card and package right under his nose, he cannot resist asking the chemist, "Is this stuff really any good?" And there you are! Of course, the chemist will not display goods on his counter unless he has absolute confidence in them. The only exception to that rule should be in the case of a new remedy that bears a good profit; then the explanation should be given that it is a new remedy, "money back if not satisfied," and that he will be glad to have the customer's honest opinion of the remedy after trying it. The reason why I give piles for my example is that, although I often see advertisements in the monthly magazines of sure cures for piles, I am never, or hardly ever, asked for them. On the other hand, I seek a pile-remedy that is not advertised in the public Press, but sells on sight; and as it bears a good profit it is always in sight. If a remedy is much advertised, and the profits are correspondingly low, it should never find place on a chemist's counter.—Yours truly,

MIDLAND NYALIST. (259/51.)

SIR.—I have read with interest "Forty Years' Subscriber's" letter in your issue of February 6. If the introduction on to the market of a genuine remedy were as easy as your contributor thinks it ought to be, we should soon have the chemist inundated with similar business propositions, and a great part of his time would be spent in introducing new preparations personally to his customers, his shop and windows smothered with showcards, and his counters full of literature proclaiming the merits of this or that article. No matter how genuine an article may be, the promiscuous advertising that the chemist can give it will not produce lasting sales. The "patent-medicine" taking public are notoriously fickle; they like trying new things, and will only go on using the same article year after year if it be persistently kept under their notice. No chemist can spare the time to be continually talking his customers into repeat orders. Given that he stocked, as he would in time, a score or more of various articles pushed only in this way, he would have to keep a list, or remember which customer had which article, and keep talking them into repeat purchases. Some will repeat "on their own," but the bulk will not. The "fickle" are in the majority. No "patent medicine" can live only by new customers. Repeat order after order must be got from the same user, and this requires repetition of selling efforts. Even then it requires the "tale" being told in varying ways. The successful patent-medicine proprietor is he who is always putting out fresh matter—the same message each time, but told differently—and what chemist has the time to do this? Speaking generally, it all comes to this: that the chemist's sphere is to sell an article when asked for it, and not to do the advertising. He can sell some, and perhaps get a 50-per-cent. profit, by personal persuasion or by showcards and literature, but he cannot keep that article going. It is therefore not correct in a commercial sense to suggest that thousands of pounds might go into the chemist's pocket that now go into other channels. This premise could only hold good if the volume of trade could be made the same by the sole effort of the chemists as it now is by general publicity. A patent-medicine proprietor must therefore, to build up a trade of any size, make his own customers and keep them continually in touch with his article by persistent advertising. The chemist, by spending time on selling an article unhelped by outside publicity, is entitled to 50 per cent. profit or more, but the trade he thus produces will not keep up, and he will get left with unsaleable stock. On the other hand, if he be content with 20 per cent. to 25 per cent., or $33\frac{1}{3}$ per cent. (as some advertised articles give him), few nowadays involve the chemist in a loss since the P.A.T.A. came into being, and moreover having a large and repeating sale, he is much better off and has far less worry. The chemist can on the whole only sell the 50-per-cent.-profit article to his existing customers, whereas a largely advertised article, if displayed in his shop-windows, will draw new customers to his shop, and possibly he can sell them other things they may require. A chemist's connection is largely personal attractiveness, as with doctors, and he always has the chance of attracting certain of such

customers to become regular purchasers of various requirements at his shop. The "patent-medicine" taker hates to be pestered. He will read advertisements, whether as "space" in newspapers and periodicals or as pamphlets, etc., of his own free will and at his own time, but for the chemist to tackle him personally every now and then to repeat his order will end in that customer going elsewhere. The patent-medicine trade as it exists to-day has survived in its present form on the Darwinian process of "survival of the fittest." It survives thus because the "patent-medicine" public have been proved capable of being handled only in one way. To attempt to do otherwise with the object of making a large business must result in failure as a money-making proposition. To do one's own advertising is to take the "line of least resistance," and therefore the easiest road to success—a road, for all that, by no means easy.—Yours faithfully,

H. G. ROWBOTHAM.

Insurance Dispensing in London.

SIR.—One naturally sympathises with "Panel Chemist," but to "take it out" of the patient is not quite the thing. The majority of these, if not the whole, have been forced into the business, and as a matter of fact the greater part pay, have indeed paid long before "Panel Chemist" gets his quota, pretty stiffly for the bottle of physic so grudgingly and tardily handed out to them. An Insurance patient could very effectively retort on our indignant friend, and to much more purpose. In the first place, the patient had no say in the matter, whereas "Panel Chemist" entered into the transaction and contract a free man; secondly, the patient may say that, as he has had only one or two bottles in as many years, he has paid something like 5s. per bottle, and has a clear right to the best drugs and work. This would in many cases be perfectly true. When he comes to know more about the Act he will comment freely on the difference between the treatment promised in the Chancellor's speeches and the spare and watery residuum frequently considered "good enough" by doctors (who have nothing to complain of) and the chemist, who has only himself to blame for any annoyance he suffers. I think "Panel Chemist" will be well advised to look at both sides of the matter, and to treat the patient with courtesy and consideration. The big majority not only have a legal right to a fair and prompt treatment, but are quite deserving of it. But this said, I have a very great dislike to the venereal patient, who "eats up" as much value in three months as it takes a dozen or so others to pay for. I have had a tickening of such scripts as the following: "Ol. santal. flav. 3j. mx. t.d.s. on sugar"; "Caps. santali flav. ix. t.d.s. A large quantity"; together with solutions of ergyrol or protargol and various dressings. I admit to sending these out grudgingly. The script given below also eats up a lot of the Drug Fund:

Pot. brom.	...	...	...	5j.
Tinct. hyoscy.	...	...	...	5j.
Tinct. card. eo.	...	...	...	5j.
Sodii bie.	...	...	...	5iij.
Inf. buchu ad.	...	...	...	5vij.

siv. ex ac. t.d.s.

This, after all, is the kind that we may expect to receive on occasions. This patient gets value for his payments, the venereal person gets far too much; the ordinary patient is made to suffer for the others.—I am, etc.,

ACTUM DAMNOSTM. (259/37.)

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

Turnip-seed Dressing.

"A remedy employed for the purpose is sublimed sulphur; it is applied by first saturating the seed with my cheap oil and then shaking the sulphur over it from flour-dredger. This is probably what your correspondent wants."—D. S. Bennet, Ph.C.

A Mil Nightmare.

Startling result of Ph.C. (2/96) studying the new B.P. sights and measures after partaking of a "nightcap" before going to bed:

½ min.=3 cms.

6 cms.=1 "drop" (among them; but who the deuce wants to be a c-m-1?)

10 mins.=6 d-m 1-s.

15 mins.=1 mil (pronounced meal).

4 mils=1 dr. 4 drs.=1 tablespoonful, 2 tablespoonfuls=real dram, x tablespoonfuls=1 square meal, 568 mils=pint O.

Obviously the coming of the mil has not meant the coming of the Millennium.

Chillie Embrocation.

Mr. J. Haddock, Ph.C., informs us that he is the originator of the preparation that goes by this name, and the composition differs from that of the formula quoted in the C. & D., February 6. Mr. Haddock's label states that the composition is capsicum, camphor, oil of mustard, oil of origanum, oil of turpentine, chloroform, acetic acid, and yolk of eggs. The formula that we gave was not intended as a substitute.

Panel Dispensing and Late Hours.

"My hours for business are from 8 A.M. to 8.30; Saturdays, 10. My doctor, who is trying to do really more than he can (without any assistance), starts his evening surgery hours generally at 7.45. After 8.30 he sends most of those waiting with 'Urgent' marked on counterfoil. I object. He makes them urgent solely because he cannot see them at a reasonable time. What should I do?"—Country Chemist (244/33).

We have submitted this query to several gentlemen who are recognised experts in regard to Insurance dispensing, especially in respect to the relations between panel doctors and panel chemists and administration. Their replies are appended:

"'Country Chemist' should (1) beware of the doctor (if in rural area) making application for power to dispense; (2) consult Secretary of Pharmaceutical Committee for area re Article 13 (2), and obtain his advice; (3) visit doctor, endeavour to obtain friendly arrangement as to dispensing after hours; (4) failing agreement, extend hours of business half an hour, and forward to his Insurance Committee and Pharmaceutical Committee objection to doctor's action, with particulars."—(258/66.)

"'Country Chemist' should make the best of it. He might educate a good proportion of his belated patients to prefer their medicine delivered the following morning. The corruption of such enviable easy hours is to be regretted, but if the existing arrangement satisfies both the doctor and the patient, how dare the chemist object? Why not make a complaint to the Secretary of the Pharmaceutical Committee, and get him to do the dribbling? When sure of scoring, 'Country Chemist' could kick."—(258/96.)

"The point raised is rather an interesting one, but at the same time in my mind there is no doubt that, as the chemist is under contract with the Insurance Committee to supply medicines up to 8.30, and also to dispense after hours any prescription marked 'Urgent,' he has no legal ground for complaint. To my mind, his only remedy, if he has good grounds for believing what he states to be correct, is to get someone to move in the direction of pointing out to some member of the Committee the condition of things existing, with the hope of getting the grievance in some way remedied."—(259/41.)

"I should approach the doctor in the first place, as a little persuasion is often worth a deal of fighting. If this method fails, I should bring the matter before the Pharmaceutical Committee, asking them either to approach the Insurance Committee, with a view to getting them to decide that 7.45 P.M. in a country district is too late to commence evening surgery, and comes within the agreement for proper treatment. I conclude that the prescriptions marked 'Urgent' carry a special fee. If so, they should be referred to the Panel Committee, as the numbers of urgent cases are unreasonable and constitute an excessive charge upon the Drug Fund, and should be surcharged to the doctor."—(259/93.)

"From the terms of the question I presume that Insurance prescriptions are meant. In this case the constitutional remedy is by way of complaint through the local Pharmaceutical Committee to the Joint Services Sub-Committee of the local Insurance Committee. But if by the expression 'my doctor' it is to be understood either that 'Country Chemist' has the only pharmacy in the place, or that the prescriber in question recommends his patients to take their prescriptions to the querist, then it will be expedient for the latter to approach the doctor and endeavour to make a friendly arrangement with him, whereby the doctor will adopt an earlier consulting-hour or abstain from marking prescriptions 'Urgent,' unless in *bona-fide* circumstances. In other words, the solution of the problem all turns upon 'Country Chemist's' business dependence on, or independence of, the apparently 'harmful' gent with whom he has to deal."—(2/27.)

"'Country Chemist' should write either direct to the Insurance Committee or through the local Pharmaceutical Committee, pointing out the inconvenience arising out of late surgery hours. It would be helpful if he can show actual loss to himself, or quote a case where the treatment of a patient has been prejudicially affected by delay or difficulty in obtaining medicine. His agreement requires the practitioner to attend at the times and places (for the treatment of insured persons) which are given in the printed panel list. The doctor himself fixes the hours. The

Regulations would presumably not be so construed as to require absolute punctuality at the stated times. On the matter coming before the Panel or Joint Service Committee, no doubt consideration would be given to inconvenience to insured persons and the chemist by habitually late attendance at surgery. 'Country Chemist' presumably does not know in an official manner the size of the doctor's panel list of patients, and could not consequently rely on the statement he makes *viz.*, that the doctor has too much work. An alternative is to arrange with the doctor to dispense for such cases as cannot get to his shop before closing-hour (emergency dispensing). With regard to this, it may be said that the less of such arrangements the better if the chemist is to make dispensing a real success."—(259/3.)

Dispensing Difficulties and Notes.

Readers are advised to consult "The Art of Dispensing" in regard to compounding difficulties. We welcome fresh problems and invite the co-operation and correspondence of dispensers in their elucidation.

A Throat-paint.

M.P.S. (252/19) asks how the underwritten script should be dispensed:

Iodi	...	...	...	...	gr. 12
Pot. iod.	...	...	...	...	gr. 24
Menthol.	...	...	...	...	3iss.
Ol. vaselin. ad	...	...	...	...	3j.

He omitted the iodide, dissolved iodine in the paraffin-base by gentle heat on water-bath, and then menthol in cooled liquid. The paint was returned next day with the remark that it was solid, and not as it had been dispensed before.

[There is more menthol ordered for the throat-paint than the vaseline oil will retain in solution at a winter temperature. Possibly the liquid was not quite cold when "M.P.S." dissolved the menthol in it, and as the temperature fell solidification would ensue, owing to the menthol crystallising out of solution. Alkaloids are frequently ordered with vaseline oil in excess of what it will dissolve. In such cases it is customary to use a little oleic acid to promote solution. The above prescription is an analogous instance. Triturate the iodine and potassium iodide with 3 fluid drachms of oleic acid, add the menthol, and dissolve; lastly add the requisite quantity of vaseline oil. All the potassium iodide may not dissolve, but a very much richer-coloured paint is obtained by retaining it than by its omission.]

Camphor-and-Tar Pills.

SIR.—Would you mind telling me how I could dispense the following in the smallest possible pill? I had four dozen to make. I used p. saponis, glucose, and tragacanth in order to mass. They turned out a 5-grain pill, so I divided into two and labelled two for a dose:

Camphor,					
Opii,					
Ac. benzoic.	...	...	aa.	gr. $\frac{1}{8}$	
Ext. glycyrrh.	...	...	...	gr. ij.	
Ol. anisi	...	...	...	...	ml. $\frac{1}{16}$
Picis liquid.	...	...	...	...	gr. $\frac{1}{4}$
Creosoti	...	...	...	...	ml. $\frac{1}{4}$
Ft. pil. Mitte 48. Varnish.					

C. E. W. (245/18.)

[Soap is not a permissible excipient for use in compounding pills which contain essential oil, creosote, phenol, or kindred substances. It does not present them in an unchanged, but in a modified, form. Even if it were permissible, it is not good from the pharmaceutical manipulator's point of view: it renders the pills too bulky. To prepare the pills according to the prescription: Place the camphor, oil of anise, pine-tar, and creosote, along with 18 grains of beeswax in shavings, in a short cylindrical pill-tube; cork the tube, and stand in hot water till the wax is melted, agitate with a circular motion to mix the contents, then stand in very cold water till the mixture is solidified. Next spread the extract of liquorice on a pill-tile, and dry over a water-bath till quite firm; remove from the tile, place in a pill-mortar, and mix with the opium and benzoic acid. Finally remove the ingredients from the tube, mix with those in the mortar, and gently work into a mass. In this way pills weighing just the aggregate of the materials ordered are obtained. Their consistency is comparatively soft, but they retain their shape perfectly, and are the size of a $2\frac{1}{2}$ -grain pill.]

Miscellaneous Inquiries.

Lion.—We do not reply to querists who send no name and address.

Cedar (241/71).—INFANTS' PRESERVATIVE to suit your label:

Liq. morph. hydrochlor.	...	siij.
Ol. anethi	...	...
Ol. anisi	...	...
Ol. menth. pip.	...	...
Ol. carui	...	...
Sp. vini rect.	...	...
Syrupi	...	...
Aqua	...	...

Misce.

You would, however, be better advised not to sell an opiate-preparation for use by children.

D. J. M. (196/64).—We cannot identify the powder you send.

H. L. & S. (249/49).—(1) WATERPROOFING PROCESSES.—For the most recent method of waterproofing cloth see the *C. & D.*, November 21, 1914, pp. 687 and 709. As you also mention linen, it is possible that your customer has in view the processes of rendering starched linen waterproof. These were given in detail in the *C. & D.*, October 5, 1912, p. 564. (2) RUBBER-SOLVENTS.—These are coal-tar naphtha, petroleum spirit, turpentine, and carbon bisulphide. The rubber is first "masticated," this process converting it into a pulpy condition, in which state it is more easily acted upon by solvents.

A. B. C. (246/4).—PHOSPHORUS PASTE.—See *C. & D.*, April 4, 1914, p. 70.

Omega (237/16).—We are not clear as to what you intend by the description "colourless walnut-stain for the hair." Will you explain further?

Chiropodist (239/56).—CHIROPODY AS A SIDE-LINE has been advocated in the *C. & D.*, but there seems to be no royal road to acquiring the necessary skill and experience. Much can be learnt by the study of the following books: Wagner's "Handbook of Chiropody" (Osborne, Garrett & Co., 5s.); Hughes's "Manual of Chiropody" (Wyman & Son, 2d.). The methods of acquiring practice by operating on the feet of members of your family or of friends will naturally suggest themselves to you.

Kaye (249/70).—HONEY AND FLOWERS.—See *C. & D.*, September 20, 1913, p. 64, or October 29, 1910, p. 64.

A. A. R. (240/49).—WATER-ANALYSIS.—In Thorpe's "Dictionary of Applied Chemistry" there are given under the article on "Water" analyses of about fifteen deep-well waters, but no useful purpose would be served by quoting one or two of these.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," February 15, 1865.

Cod-liver Oil Sugar-plums.

Is there anything in the whole range of pharmaceutical preparations so thoroughly nasty as cod-liver oil? If there is, let it be sent to M. Meynet, Pharmacien de la 1^{re} Classe, of the Rue d'Amsterdam, Paris, and he will make it into a sugar-plum that shall not only be palatable, but nice. At least he has managed to make the extract of cod-liver oil into a pleasant sweetmeat, and if he can do that he can do anything. These sweetmeats, which are really very elegant preparations, are sold in two sizes, the larger size consisting of a coloured sugar-plum the size of a horse-bean, the smaller size being about as large as a big pin's head. They are sold in boxes containing 100 of the larger size, each equal to two teaspoonsfuls of oil, at 3 francs, the smaller ones being the same price per box of 1,000, five of them being equivalent to a teaspoonful of oil. M. Meynet also makes a syrup and glycerole of the extract, the latter for outward application. That these preparations are pleasant and palatable we have already proved on the *corpus vire* of one of our own children, at 4, who not only instantly proceeded to crunch the *dragée* that was given to him, but, like Oliver Twist, immediately "asked for more." The Academy of Medical Sciences of Paris have highly commended these preparations. M. Gouffroy, of 27 Quai de la Basse Boule, Lille, is the sole proprietor of the English patent.

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The New Remedy in Amoebic Disease.—Vide *British Medical Journal*, Aug. 24, 1912, pp. 405-408.

Emetine for Hæmoptysis. Vide *Press Médicale*, Paris, September 24.—"The result is surprising, haemorrhage from the lung ceasing at once."—Prof. C. FLANDIN.

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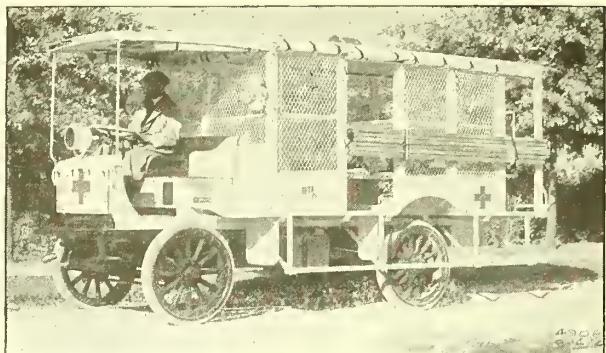
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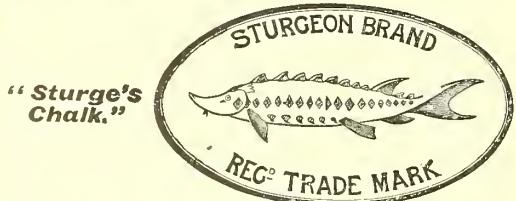
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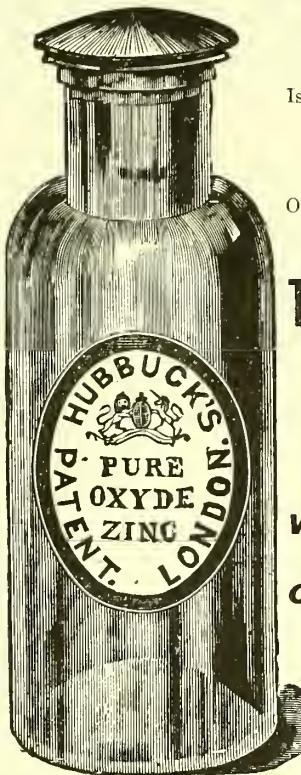
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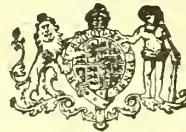
By Royal Warrant

To H.M.

King George V.

To H.M.

Queen Alexandra.



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JEYES' FLUID, **JEYES' POWDER,**
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Aacet. Ipecac. B.P., 7 lbs. @ 1/9 lb.	* Inf. Caryopb. Conc., 1 to 7, 6 lbs. @ 1/- lb.	Ol. Caryopb. Ang., B.P., 9 lbs. @ 4/11 lb.; 4½ lbs. @ 5/1 lb.
Scilla, P.B., 7 lbs. @ 4½ d. lb.	** Cascarilla Conc., 1 to 7, 6 lbs. @ 1/4 lb.	Ol. Menth. Pip. Englisch, 5 lbs. @ 33/6 lb.; 1 lb. @ 34/6 lb.; American, 20 lbs. @ 8/3 lb.
Acid. Boric Pulv., 3 cwt. @ 34/- cwt.; 1 cwt. @ 34/6 cwt.; levigd. 3/- cwt. @ 4½ d. lb. extra.	** Cincoëba Acid, 1 to 7, 6 lbs. @ 1/7 lb.	4½ lbs. @ 8/11 lb.; 1 lb. @ 9/6 lb.
Ammon. Carb. Lump, 3 cwt. @ 4½ d. lb.; 28 lbs. @ 5½ d. lb.; 7 lbs. @ 6d. lb.; powder, 4d. lb. extra.	** Gentianæ Conc., 1 to 7, 6 lbs. @ 1/1 lb.	Ol. Wintergreen, Artificial, 5 lbs. @ 4/- lb.; 1 lb. @ 4½ lb.
Aqua Anethi Conc., 1-40, 1 lb. @ 2/11 lb.	** Quassia Conc., 1 to 7, 6 lbs. @ 9d. lb.	Oxymel Scilla, B.P., 5 cwt. @ 34/6 cwt.; 1 cwt. @ 36/- cwt.; 7 lbs. @ 7d. lb.
" Anisi Conc., 1-40, 1 lb. @ 3/1 lb.	** Rhei Conc., 1 to 7, 6 lbs. @ 1/6 lb.	
" Aurant. Conc., 1-40, 1 lb. @ 6/lb.	** Rosæ Acid. Conc., 1 to 7, 6 lbs. @ 1/8 lb.	
" Cinnam. Conc., 1-40, 1 lb. @ 3/4 lb.	** Senegæ Conc., 1 to 7, 6 lbs. @ 2/1 lb.	
" Ment. Pip. Conc., 1-40, 1 lb. @ 3/- lb.	** Valerian Conc., 1 to 7, 6 lbs. @ 1/3 lb.	
" Rosæ Conc., 1-40, 1 lb. @ 7/- lb.		
Bismutb, P.B., Carb., 28 lbs. @ 11/6 lb.; 7 lbs. @ 11/9 lb.; 3 lbs. @ 12/- lb.; 1 lb. @ 12/4 lb.; submit 1/- lb. less.	* Lin. Aconiti Metb., 5 lbs. @ 1/2 lb.; 1 lb. @ 1½ lb.	* Sulv. Crete Arom., P.B., 14 lbs. @ 7d. lb.; c. Opio, B.P., 7 lbs. @ 1/9 lb.
amphor, English Flowers, "not artificial," 5 lbs. @ 2/4 lb., 7 lb. tabs., ½ oz., ½ oz., or ¼ oz. @ 2/5 lb.	* Bellad. Metb., 5 lbs. @ 2/9 lb.; 1 lb. @ 3/- lb.	Pulv. Glycyrrh. Co., B.P. (Green), English Ground, 56 lbs. @ 44/- cwt.
Chloroform, 5 lbs. @ 2/- lb.	" Campb. P.B., 40 lbs. @ 1/- lb.; 9 lbs. @ 1/lb.	Pulv. Ipecac. Comp., P.B., 1 lb. @ 5/3 lb.
Chloroform, pure, B.P., 12 8-lbs. @ 1/9 lb.; 8 lbs. @ 1/10 lb.; 6 1-lb. bots. @ 2/- lb.	" Sapo Meth., 9 lbs. @ 7d. lb.	" Jalap Comp., P.B., 1 lb. @ 1/9 lb.
Dcc. Aloes Co. Conc., 1-2, 6 lbs. @ 1/9 lb.; Sinecroco, 6 lbs. @ 1/2 lb. [lb.;	" Terreb. Acet., B.P., 5 lbs. @ 1/- lb.	" Rhei Comp., P.B., 1 lb. @ 1/2 lb.
" Cinchonæ (Rubra) Conc., 1-7, 6 lbs. @ 1/10 lb.	* Liq. Ammonii Acetatis Conc., 1-7, 6 lbs. @ 8d lb.; 1 lb. @ 1/- lb.	
" Senegæ Conc., 6 lbs. @ 2/6 lb.	* Ammon. Aromat., 6 lbs. @ 9d. lb.	* pt. Ether Nit. P.B., 4½ lbs. @ 3/8½ lb.; 1 lb. @ 3/1½ lb.
Emp. Spread, 12 yards x 16 ins. adhesives, 3/8; B. Ild. B.P.C., Green @ 17/6; Cerat. Saponis @ 7 6; Picis Co. @ 7/6; Plumbi @ 6/-; Resin @ 4/6; Roborans @ 7/-; Saponis, B.P., @ 6/-.	* Antim. Cblor. Pure, 8 lbs. @ 6½ d. lb.	" Ammon. Aromat., P.B., 5 lbs. @ 2/11 lb.
Empl. Picis, P.B., 7 lbs. @ 8d. lb.	* Arsenicalis, B.P., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb.	" Chlorform, P.B., 5 lbs. @ 3/8 lb.
" Plumbi F.B., 7 lbs. @ 8d. lb.	* Arseni Hydrochlor., P.B., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb.	* Syr. Aurant. P.B., 7 lbs. @ 10d. lb.
" Resina, P.B., 7 lbs. @ 8d. lb.	* Bismutb, P.B., 6 lbs. @ 1/3 lb.	" Easton, B.P., 7 lbs. @ 1/2 lb.
" Roborans, 7 lbs. @ 8d. lb.		" Ferri Iodid. P.B., 7 lbs. @ 1/5 lb.
Emulsio Ol. Morrhua, 5 lbs. @ 11d. lb.		" Ferri Phospb. Co., 7 lbs. @ 6½ d. lb.
Ess. Pear (artificial), Jargonne, 5 lbs. @ 2/- lb.; Bergamot, 2/6 lb.	* Liq. Coparia Buebu et Cubeb, 5 lbs. @ 2/8 lb.; 1 lb. @ 3/- lb.	" Hypophospb. Co., B.P.C., 7 lbs. @ 10½ d. lb.
Ess. Pineapple, 5 lbs. @ 3/4 lb.	* Easton, P.S. 1-3, B.P., 1 lb. @ 3/- lb.	" Pruni Virg., B.P., 8 lbs. @ 8½ d. lb.
" Raspberry, 5 lbs. @ 2/2 lb.; 1 lb. @ 2/6 lb.	* Ferri Dialisysat., 6 lbs. @ 7d. lb.	" Rhamnini, 7 lbs. @ 11d. lb.
" Vanilla Beans, 5 lbs. @ 4/4 lb.; 1 lb. @ 4/7 lb.	* Ferri Iod. p.s., 1-7, 1 lb. @ 7/10 lb.	" Rhei, P.B., 7 lbs. @ 9d. lb.
Ext. Belladonna Liq., B.P., 5 lbs. @ 7/- lb.; 1 lb. @ 7/6 lb.	* Ferri Perchlor. Fort., P.B., 7 lbs. @ 4d. lb.	" Scilla, P.B., 7 lbs. @ 6d. lb.
Ext. Cascara Sag. Liq., B.P., 1 cwt. @ 1/2½ lb.; 10 lbs. @ 1/4 lb.	* Ferri Phospb. Co. p.s., 1-7, 7 lbs. @ 1/6 lb.	" Sennæ, P.B., 7 lbs. @ 9d. lb.
Ext. Glycyrrh. Liq., B.P., 6 lbs. @ 17/2 lb.	* Hypopbospb. Co. p.s., B.P.C., 1 lb. @ 3/8 lb.	" Tolut., P.B., 7 lbs. @ 8½ d. lb.
Ext. Hamamelis Liq., P.B., 5 lbs. @ 3/5 lb.	* Iodi Fort., B.P., 5 lbs. @ 6/- lb.	
Ext. Hyoscyam. Solid, B.P., 3 lbs. @ 5/lb.; 1 lb. @ 5/5 lb.	* Morphinæ Acet. or Hydrochlor., P.B., 6 lbs. @ 3/4 lb.	
Ext. Ipecac. Liq., P.B., 5 lbs. @ 18/6 lb.; 1 lb. @ 19/6 lb.	* Opii Séd., 5 lbs. @ 4/6 lb.	
Ext. Malii c. Ol. Jecoris, 10 lbs. @ 5½ d. lb.	* Plumbi Subacet., P.B., 7 lbs. @ 3½ d. lb.	
Ext. Nucis Vom. Liq., P.B., 5 lbs. @ 3/5 lb.; 1 lb. @ 3/8 lb.; solid, 5 lbs. @ 3/7 lb.; 1 lb. @ 3/10 lb.	* Pruni Virg. p.s., 1-7, 5 lbs. @ 2/6 lb.	
Ext. Quassia, Solid, 7 lbs. @ 6/- lb.; 1 lb. @ 6½ lb.	* Rbeadose pro Syr., 1 to 7, 5 lbs. @ 2/2 lb.	
Ext. Sarsæ Co. Solid, 7 lbs. @ 6/- lb.; 1 lb. @ 6½ lb.	* Santali Co., 1 lb. @ 4/- lb.	
Glycerin. Acid. Boric, P.B., 6 lbs. @ 1/6 lb.	* Sennæ Dulc., 6 lbs. @ 1/4 lb.	
" Acid. Carbolic, P.B., 6 lbs. @ 1/6 lb.	* Sennæ pro Syr., 1-7, 6 lbs. @ 2/- lb.	
" Acid. Tannic, P.B., 6 lbs. @ 2/2 lb.	* Strycninae Hyd., P.B., 6 lbs. @ 1/6 lb.	
" Belladon. B.P.C., 6 lbs. @ 3/- lb.; 1 lb. @ 3/3 lb.	* Tolut. pro Syr., 1-7, 6 lbs. @ 1/8 lb.	
Glycerin. Acid. Boracis, P.B., 6 lbs. @ 1/3 lb.	* Trinitrini, P.B., 1 lb. @ 6/1 lb.	
" Pepsin. Acid, P.B., 1 lb. @ 3/6 lb.		
" Plumbi Subacet. P.B., 6 lbs. @ 1/7 lb.		
Hædning (Frothing Ess.), 5 lbs. @ 1/1 lb.		
Iuf. Aurant. Conc., 1 to 7, 6 lbs. @ 1/3 lb.		
" Aurant. Comp. Conc., 1 to 7, 6 lbs. @ 1/3 lb.		
" Buchu Conc., 1 to 7, 6 lbs. @ 2/2 lb. [lb.		
" Calumbæ Conc., 1 to 7, 6 lbs. @ 11d. lb.		

Minimum quantity at these prices; Home Trade, 3 Winchester Quarts assorted; NOTE.—Only terms Net Cash with order without discount, or orders accepted through London Merchants or Bankers.

Goods carriage forward; all packages free; Export cases extra.

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* Inf. Caryopb. Conc., 1 to 7, 6 lbs. @ 1/- lb.	* Liq. Coparia Buebu et Cubeb, 5 lbs. @ 2/8 lb.; 1 lb. @ 3/- lb.	Tinct. Aurantii Recens., B.P., 5 lbs. @ 3/6 lb.; bond, 8d. Aquos, 10d. lb.
" Cascarilla Conc., 1 to 7, 6 lbs. @ 1/4 lb.	* Easton, P.S. 1-3, B.P., 1 lb. @ 3/- lb.	Tinct. Belladon., B.P., 5 lbs. @ 3/3 lb.; bond, 6½ d. Aquos, 1/- lb.
" Cincoëba Acid, 1 to 7, 6 lbs. @ 1/7 lb.	* Ferri Dialisysat., 6 lbs. @ 7d. lb.	Tinct. Benzoinal Comp., P.B., 5 lbs. @ 3/7 lb.; bond, 10d.
" Gentianæ Conc., 1 to 7, 6 lbs. @ 1/1 lb.	* Ferri Iod. p.s., 1-7, 1 lb. @ 7/10 lb.	Tinct. Campb. Comp., P.B., 5 lbs. @ 2/8 lb.; bond, 6½ d. Aquos, 1/- lb.
" Quassia Conc., 1 to 7, 6 lbs. @ 9d. lb.	* Ferri Perchlor. Fort., P.B., 7 lbs. @ 4d. lb.	Tinct. Cantabridis, P.B., 5 lbs. @ 4/- lb.; bond, 6d. Aquos, 1/- lb.
" Rhei Conc., 1 to 7, 6 lbs. @ 1/6 lb.	* Ferri Phospb. Co. p.s., 1-7, 7 lbs. @ 1/6 lb.	Tinct. Cinchon. Comp., B.P., 5 lbs. @ 3/2 lb.; bond, 1/0½ lb. Aquos, 1/2 lb.
" Senegæ Conc., 1 to 7, 6 lbs. @ 2/6 lb.	* Hypopbospb. Co. p.s., B.P.C., 1 lb. @ 3/8 lb.	Tinct. Cinchon. Rub., P.B., 5 lbs. @ 3/1 lb.; bond, 10d. Aquos, 1/2 lb.
Empl. Picis, P.B., 7 lbs. @ 8d. lb.	* Iodi Fort., B.P., 5 lbs. @ 6/- lb.	Tinct. Digitalis, B.P., 5 lbs. @ 3/3 lb.; bond, 6½ d. Aquos, 1/- lb.
" Plumbi F.B., 7 lbs. @ 8d. lb.	* Morphinæ Acet. or Hydrochlor., P.B., 6 lbs. @ 3/4 lb.	Tinct. Gelsem., P.B., 5 lbs. @ 2/11 lb.; bond, 6½ d. Aquos, 1/3 lb.
" Resina, P.B., 7 lbs. @ 8d. lb.	* Opii Séd., 5 lbs. @ 4/6 lb.	Tinct. Hyoscyam., B.P., 5 lbs. @ 3/2 lb.; bond, 7½ d. Aquos, 1/5 lb.
" Roborans, 7 lbs. @ 8d. lb.	* Plumbi Subacet., P.B., 7 lbs. @ 3½ d. lb.	Tinct. Iodi. B.P., 5 lbs. @ 4/8 lb.; Fort. 6/- lb.; bond, 1/9 lb.; decolor. 5 lbs. @ 4/10 lb.; bond, 1/6½ lb.
Emulsio Ol. Morrhua, 5 lbs. @ 11d. lb.	* Pruni Virg. p.s., 1-7, 5 lbs. @ 2/6 lb.	Tinct. Nucis Vom., B.P., 5 lbs. @ 2/10 lb.; bond, d. Aquos, 1/2 lb.
Ess. Pear (artificial), Jargonne, 5 lbs. @ 2/- lb.; Bergamot, 2/6 lb.	* Rbeadose pro Syr., 1 to 7, 5 lbs. @ 2/2 lb.	Tinct. Opii, B.P., 5 lbs. @ 5/- lb.; bond, 3/4 lb.
Ext. Belladonna Liq., B.P., 5 lbs. @ 7/- lb.; 1 lb. @ 7/6 lb.	* Santali Co., 1 lb. @ 4/- lb.	Tinct. Opii Aquos, 5 lbs. @ 3/- lb.
Ext. Cascara Sag. Liq., B.P., 1 cwt. @ 1/2½ lb.; 10 lbs. @ 1/4 lb.	* Sennæ Dulc., 6 lbs. @ 1/4 lb.	Tinct. Rhei Co., B.P., 5 lbs. @ 2/- lb.; bond, 10d. Aquos, 1/- lb.
Ext. Glycyrrh. Liq., B.P., 6 lbs. @ 17/2 lb.	* Sennæ pro Syr., 1-7, 6 lbs. @ 2/- lb.	Tinct. Strobantb., P.B., 5 lbs. @ 3/10 lb.; bond, 8½ d. Aquos, 1/- lb.
Ext. Hamamelis Liq., P.B., 5 lbs. @ 3/5 lb.	* Strycninae Hyd., P.B., 6 lbs. @ 1/6 lb.	Tinct. Valerianæ, 5 lbs. @ 2/9 lb.; bond, 6d. Aquos, 1/- lb.
Ext. Hyoscyam. Solid, B.P., 3 lbs. @ 5/lb.; 1 lb. @ 5/5 lb.	* Tolut. pro Syr., 1-7, 6 lbs. @ 1/8 lb.	Ung. Acid. Boric, P.B., 28 lbs. @ 7½ d. lb.; Flav. 28 lbs. @ 5½ d. lb.
Ext. Ipecac. Liq., P.B., 5 lbs. @ 18/6 lb.; 1 lb. @ 19/6 lb.	* Trinitrini, P.B., 1 lb. @ 6/1 lb.	" Acid. Carbolic, B.P., 28 lbs. @ 9d. lb.; 7 lbs. @ 10d. lb.; 1 lb. @ 1/- lb.
Ext. Malii c. Ol. Jecoris, 10 lbs. @ 5½ d. lb.		" Gallæ, P.B., 7 lbs. @ 1/- lb.; 1 lb. @ 1/2 lb.
Ext. Nucis Vom. Liq., P.B., 5 lbs. @ 3/5 lb.; 1 lb. @ 3/8 lb.; solid, 5 lbs. @ 3/7 lb.; 1 lb. @ 3/10 lb.		" Hydarg. Ammon, B.P., 28 lbs. @ 1/- lb.; 7 lbs. @ 1/2 lb.
Ext. Quassia, Solid, 7 lbs. @ 6/- lb.; 1 lb. @ 6½ lb.		Export, 12 Winchester Quarts assorted.
Ext. Sarsæ Co. Solid, 7 lbs. @ 6/- lb.; 1 lb. @ 6½ lb.		
Glycerin. Acid. Boric, P.B., 6 lbs. @ 1/6 lb.		
" Acid. Carbolic, P.B., 6 lbs. @ 1/6 lb.		
" Acid. Tannic, P.B., 6 lbs. @ 2/2 lb.		
" Belladon. B.P.C., 6 lbs. @ 3/- lb.; 1 lb. @ 3/3 lb.		
Glycerin. Acid. Boracis, P.B., 6 lbs. @ 1/3 lb.		
" Pepsin. Acid, P.B., 1 lb. @ 3/6 lb.		
" Plumbi Subacet. P.B., 6 lbs. @ 1/7 lb.		

Hædning (Frothing Ess.), 5 lbs. @ 1/1 lb.

Iuf. Aurant. Conc., 1 to 7, 6 lbs. @ 1/3 lb.

" Aurant. Comp. Conc., 1 to 7, 6 lbs. @ 1/3 lb.

" Buchu Conc., 1 to 7, 6 lbs. @ 2/2 lb. [lb.

" Calumbæ Conc., 1 to 7, 6 lbs. @ 11d. lb.

Minimum quantity at these prices; Home Trade, 3 Winchester Quarts assorted; NOTE.—Only terms Net Cash with order without discount, or orders accepted through London Merchants or Bankers.

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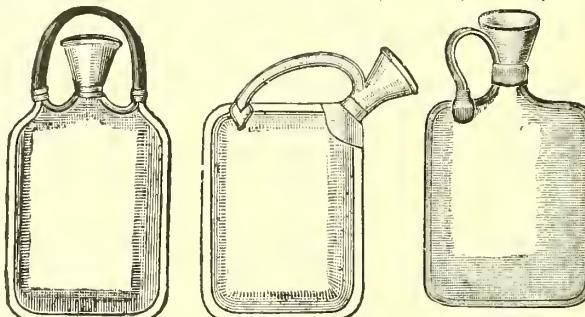
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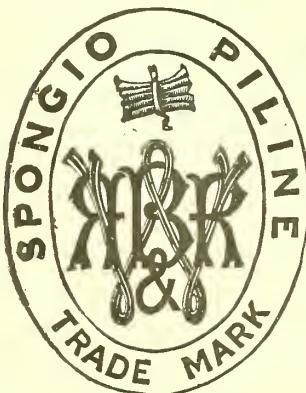


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Beware of imitations made from inferior materials now being offered to the Trade. The advantages are greater comfort and retention of **warmth** and **moisture**. **It can be washed and re-used as often as required**, and obviates all the trouble of the old mode of poulticing and fomenting.

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AIR CUSHIONS.

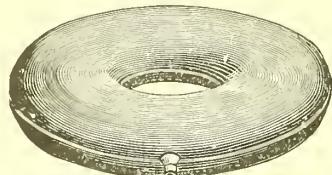


Fig. 1194.

Fig. 1194.—The "Empire" red India-rubber Air Cushion—

DIAMETER	14	15	16	17	18	19	20	in.
each	5	0	5	6	6	6	8	9

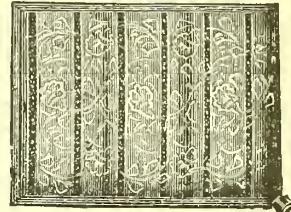
Fig. 1354.—Air Cushion, sateen covered, reeded ... SIZES 14×10 | 15×12 | 18×14 in.
each 3 3 | 3 9 | 4 6**BRITISH****MAKE.**

Fig. 1354.

Fig. 1194.—The "Empire" red India-rubber Air Cushion—

DIAMETER	14	15	16	17	18	19	20	in.
each	5	0	5	6	6	6	8	9

Fig. 1354.—Air Cushion, sateen covered, reeded ... SIZES 14×10 | 15×12 | 18×14 in.
each 3 3 | 3 9 | 4 6**Special Line.**—Khaki-covered Pillow, 17×12 in., in khaki case with clasp ... each 4 6

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DISPENSING, as illustrated, Plain or Graduated.

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7/9	8/-	9/-	13/-	14/6
16 oz.	20 oz.			
19/6	21/-	per gross.		

GREEN PANELLED (three sides)

1/- per gross extra to above prices up to 8 oz., 2/- extra beyond.

GREEN PANELLED HEAVY (for Cough Mixtures)

2½ oz. 8/9; 5 oz. 10/- per gross.

POISON. Oval Ribbed, Pale Green (for Ammonia)

3 & 4 oz.	6 & 8 oz.	10 oz.	12 oz.	16 oz.	20 oz.	per
9/6	10/6	13/6	15/-	19/6	21/6	gross

VIALS and HEXAGON POISONS at proportionately low prices.

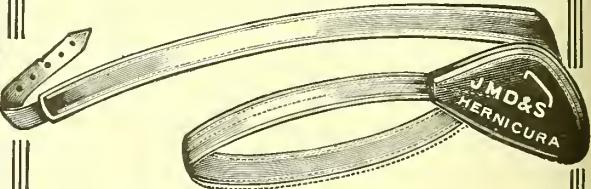
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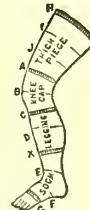
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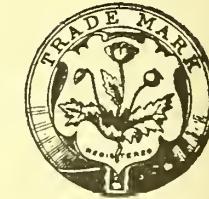
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OFFICE: 42 CANNON STREET, E.C.

SATURDAY, FEBRUARY 13, 1915

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Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done

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at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 3617 Central (3 lines). Telegraphic Address: "Chemicus Cannon London." (Three words counted as two.)

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5.—LONDON (South).—Well-established ready-money Retail Business, in busy main thoroughfare; returns approach £2,000; good profits; low rent; convenient premises; well stocked; price £950 cash.

6.—LONDON, S.E.—Sound middle-class Cash Business, in main road; returns last year £970; net profit £350; books well kept; nice house and garden; well-stocked shop; price £450 cash; strongly recommended.

7.—LONDON, N.W. (Death Vacancy).—Good-class Family Retail and Dispensing Business; present returns £10 to £12 weekly; very profitable; can easily be made do £20 a week; fine shop, well stocked; price £275, or valuation.

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SPLENDID opportunity to acquire well-established Cash Retail in busy shopping district; working-class market, London, E.C.; taking £11 to £12 weekly; under unqualified profitable trade; big scope for business man with little capital; good fittings; up-to-date stock, about £60; good house accommodation; for quick sale first best offer over £100 accepted. 225/31, Office of this Paper.

THROUGH Death.—The Business of the late W. F. Shirtcliffe, Broad Lane, Sheffield; General Retail, with excellent profits; large working-class population; Panel Chemist would do splendidly; will accept valuation. Apply, Mrs. W. F. Shirtcliffe, 117 Broad Lane, Sheffield.

£25 Cash.—Drug Store; nicely fitted, clean; lock-up shop, basement; double-window enclosures, return counter, 130 shop-rounds, fixtures, fittings, electric-light fittings; stock now £25; lot going first selling sacrifice; given-away price; near Avery's thickly populated district; established 10 years; lately branch; opposite Doctor's; rent 5s. 6d. "Chemist," 191 Dudley Road, Birmingham.

BUSINESSES WANTED.

A DVERTISER, desiring change, would like to meet with a suitable Business in town serving an Agricultural district; Lanes or within easy distance of same preferred, but short hours and readily accessible country essential. 225/4, Office of this Paper.

GOOD-CLASS Light Retail and Dispensing Business; price about £500 (with scope for increase); Southern County preferred, but not essential. Send fullest particulars, in confidence, to "Radix" (221/28), Office of this Paper.

AGENCIES.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

QUALIFIED Chemist, Spaniard, writing English and French, with London and Paris Pharmacy experience, residing Madrid, calling already for one Proprietary Medicine on Doctors and Chemists in Spain, is open to Represent another Pharmaceutical firm in Spain; London references. 235/47, Office of this Paper.

FOR SALE.

A QUANTITY of Laurance's Spectacles, etc., in mahogany case; will accept a low price to clear. Richardson, 4 Church Street, Greenwich, S.E.

CASH Till ("National") going cheap; owner must sell; condition guaranteed; keys 1d. to £1; what offers? Letters to "C. E. O." 214 Queen's Road, Walthamstow, N.E.

FOR Sale, complete set of Shop-fittings, Scales, Pill Machine, and an O'Brien Till; suitable for branch shop. Apply, S. Matz, 341 Cheetham Hill Road, Manchester.

APPRENTICESHIPS.

WANTED, to place a well-educated young lady, just left school, with a good Chemist, to learn Dispensing; North of England preferred. 219/39, Office of this Paper.

YOUNG Lady (18) desires position as Apprentice to Chemist, to study for M.P.S. E. Jones, Heaton Moor, Colwyn Bay.

TENDERS.

KENSINGTON BOARD OF GUARDIANS.

CONTRACTS FOR DRUGS AND DRUGGISTS' SUNDRIES.

THE Guardians of the Poor of the Parish of Kensington are prepared to receive Tenders for the supply of Drugs, Druggists' Sundries, Wool, Lint, Tow, etc., for six months from April 1st, 1915.

Forms of Tender, with all necessary information, may be obtained upon personal application, or by sending a stamped addressed foolscap envelope to the undersigned.

Tenders must be delivered not later than 3 p.m. on Thursday, February 25th, 1915, for consideration at a Board meeting to be held at that time.

By Order,

W. R. STEPHENS, Clerk to the Guardians.
Guardians' Offices, Marloes Road, Kensington, W.,
February 2, 1915.

FULHAM BOROUGH COUNCIL.

DISINFECTANTS.

THE Fulham Borough Council is prepared to receive Tenders for the supply of Disinfectants for the twelve months ending the 31st March, 1916.

Tenders must be made on printed forms specifying conditions of contract provided by the Council, sealed and endorsed "Tender for Disinfectants," and delivered at the Town Hall, Fulham, S.W., by 4 p.m. on Wednesday, the 24th February, 1915.

The Council does not bind itself to accept the lowest or any Tender.

By Order,

J. PERCY SHUTER, Town Clerk.
Town Hall, Fulham, S.W.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

RETAIL.

LDERSHOT.—Williams & Litchfield have a vacancy for Junior. Apply, giving usual particulars, to Litchfield, Pharmacist, South Farnborough, Hants.

BEXHILL-ON-SEA.—Wanted, in a first-class Pharmacy on the South Coast, a smart Junior Assistant with a Dispensing experience: no Insurance work. Apply, F. Wimshurst, Pharmaceutical Chemist, Bexhill-on-Sea.

BIRKENHEAD.—Assistant; unqualified; experienced; gentlemanly; good Dispenser and Window-dresser; one accustomed to good-class trade. Apply, giving full particulars of age, height, experience, references, salary required, when disengaged, with photo if convenient, to Sjencer & Moore, Ltd., Chemists, Birkenhead.

BIRMINGHAM.—Junior Assistant wanted at once; good Counter-man essential. Full particulars, age, height, experience, and salary required (outdoors), photo if possible; applications not answered in three days declined. J. H. Piddock, Pharmacist, 747 Stratford Road, Birmingham.

BIRMINGHAM.—Elderly qualified Assistant, mainly for N.H.I. Dispensing; comfortable, easy berth. State salary and particulars, 225/26, Office of this Paper.

BRIGHTON.—Gentlemanly Assistant (indoors), unqualified, for first-class Dispensing and Retail; no N.H.I. State age, height, experience, references, and salary required to T. Read, 4 Victoria Terrace, Kingsway, Hove.

BRIGHTON.—Junior Assistant wanted; good-class business; outdoors. Apply, with full particulars and photo, to Black & Co., Pharmaceutical Chemists and Opticians, 81 St. James's Street, Brighton.

BRISTOL.—Wanted, a Junior Assistant; short hours; no Sundays duty; no Insurance Dispensing. Apply, with photo, and stating salary required, Ferris & Co., Ltd., Bristol.

BRISTOL.—Junior or Improver (18 to 20) in brisk Cash Retail also sharp youth, with some knowledge of the trade, to put up stock and help at counter. Haywards, Chemists, Redfield, Bristol.

BURSLEM.—Young qualified Assistant wanted; Dispensing (good class); easy position; comfortable home; very little N.H.I. work. References and salary asked to Edward Maish, Cother Brow, Bristol.

BURSLEM.—Good Junior, about 25 years, for Country Wholesale and Retail; outdoors; single; short hours; must be good Salesman; state age, height, and experience, with references and salary required; 4 others kept. Thos. Leicester, Chemist, Burslem.

CARDIFF.—Duck & Son, Chemists, etc., require an Assistant for the Dispensing Department. Apply, stating age, height, experience, with photo (to be returned).

DARLINGTON.—Qualified Assistant required; abstainer preferred. Apply, stating age, height, experience, and salary required, to Waters, Chemist, Darlington.

DONCASTER.—M. H. Stiles & Son have an immediate vacancy for an Improver or Junior; one used to N.H.I. Dispensing. Apply as above, giving full particulars as to height, age, salary required (outdoors), references, and enclosing photo (which will be returned).

RESULTS
OF ADVERTISING IN THIS SUPPLEMENT
LAST WEEK FEB 6 1915

NATURE OF ADVT.	REPLIES
DISPENSER & STOCK-KEEPER	98
REPRESENTATIVE	22
ASSISTANT	16
SIT. WANTED	16



This Blackboard demonstrates that Advertisers using the columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED. OUR OFFICE on behalf of Advertisers who use a number nom de plume.

RETURNING PHOTOS, Etc.

Advertisers in this Section who receive portraits and copies of testimonials from applicants with a stamped addressed envelope for reply are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.

TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed c/o this Office. The Publisher desires to make it clear that this is a superfluous, and perhaps this reminder will obviate the necessity of the frequent return by him of such remittances.

ANSWER IN TERMS OF THE ADVERTISEMENT

REMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your abilities.

BE BRIEF BUT CLEAR.—Millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the material set before him.

Junior Assistant, about 21 (indoors), in good-class Dispensing business; two kept. State age, height, and references. to Metcalfe & Son, Pharmacists, Red, and refreueces. to Metcalfe & Son, Pharmacists,

ENSINGTON BOARD OF GUARDIANS.

DISPENSER.

lions of Kensington require the services of a duly temporary Dispenser for a period of one year for use and Infirmary and the South relief districts in Road, Kensington, at a salary of £120 per annum, daily; the salary will be subject to the statutory under the Poor Law Officers' Superannuation Act, candidate, who must be either a Licentiate of the apothecaries of London, or shall hold a certificate of as to his qualification to act as an Assistant in Dispensing Medicines, or shall be a Compounder duly qualified in accordance with the regulations for Medical Staff Corps, or shall have been duly registered Pharmacy Act, 1868, or shall have been duly registered Pharmacy Act (Ireland), 1875, and the Pharmacy, 1875, Amendment Act, 1890, as qualified to Commercial Prescriptions, and the person appointed will be devote his whole time to the service of the Guardians. must be made on a form to be obtained from the Guardians, Guardians' Offices, Marloes Road, W., by sending a stamped and directed foolscap must be returned to him not later than 10 a.m. February 18, 1915. Personal canvassing is strictly

RICT.—Junior Assistant wanted. Apply, stating age, and salary required, to Thomas Bell, Ambleside.

RE (Seaside Resort)—Qualified Assistant, end of to undertake responsible post, and entire control proprietor; must be good Stockkeeper and organiser; and rapid advancement to right man. Please, state in first letter, "Carolus," c/o Messrs. John Thompson, Street, Liverpool.

—Unqualified Assistant; married; N.H.I. Dispens Window-dressing. Please state age and full parshoua" (223/22), Office of this Paper.

anted immediately, qualified Manager for Branch, tail and N.H.I. work. Send full particulars to, Brooke & Hirst, Ltd., Druggists, Leeds.

—Smart gentlemanly Assistant for General Retail ensing (N.H.I. separate); outdoors; reasonableferences necessary; kindly supply all particulars, etc., in first communication. Apply, T. Strawson, Ross Street, Liverpool.

—Counterman and Window-dresser required, about March; outdoors. State age, experience, salary S." (223/14), Office of this Paper.

Manager-Assistant for Dispensing business, single-ndors; must be capable and energetic; to work less; salary 2 guineas per week. 221/22, Office

—Qualified Assistant as Senior; capable managing of principal; outdoors; good Counterman; good le man. Address full particulars to 217/9, Office

—Elderly qualified Chemist wanted: duties very ly, Davies, 559 Commercial Road, E.

—An Assistant wanted at once. Please state age, experience, and salary in first letter, or apply Bishop & Vincent, 460 Holloway Road, London, N.

E.—Assistant, unqualified, and Junior Assistant; 2 and 35s. respectively (outdoors). State age, etc., and enclose photo if possible, to Matthews & s, 722 High Road, Leytonstone, N.E.

V.—Unqualified Assistant wanted at once; age Dispenser essential; good salary: comfortable Apply, with full particulars, to Walton & Curtis, Hurst Gardens, N.W.

W.—Assistant wanted for good-class Dispensing outdoors. Apply, stating age, height, experience, ed, 567 Finchley Road, Hampstead, London, N.W.

V.—Assistant wanted, with good Dispensing ex-tdors. Davidson, Ph. Chemist, 542 High Road, W.

V.—Junior Assistant wanted at once; outdoors; accurate Dispenser. W. R. Ames, High Street, N.W.

LONDON, N.W.—Qualified Assistant wanted at once as Senior Dispenser in high-class Pharmacy; hours and duties easy. Apply, W. Browne, 509 Finchley Road, Hampstead, N.W.

LONDON, S.E.—Unqualified Assistant wanted (outdoors) for quick Cash business; close Thursdays 1 o'clock; no Sunday duty. State age, experience, and salary required, Brooks' Drug Stores, corner of High Street, Broadway, Deptford.

LONDON, S.W.—£156 per annum; April or May; qualified Assistant (young), with view to purchase; good-class Dispensing business; very little N.H.I. work; married; excellent house provided; must be good all-round man, an abstainer, of good appearance, and not afraid of work. Apply, 217/7, Office of this Paper.

LONDON, S.W.—Outdoor Assistant required, age not over 30, for Retail and Dispensing business; time for study if desired. Apply, giving usual particulars, to F. R. Barlow, Pharmaceutical Chemist, Loughborough Junction, S.W.

LONDON, S.W.—Junior Assistant, with Counter experience; outdoors; hours 8.30 to 9; Sunday duty every third, 6 to 9. State age, experience, and when disengaged, to Bruce's, Ltd., 308 Earl's Court Road, S.W.

LONDON, S.W.—Required, Dispenser; Minor qualification; hours of work approximately 8.45 to 6 p.m.; Saturdays 1.30 p.m.; salary to commence 50s. per week (outdoors). Apply by letter, stating particulars of past experience, to 1,354, Sell's Advertising Offices, Fleet Street, E.C.

LONDON, S.W.—Wanted, qualified Manager for Branch, married, to reside on premises. 221/9, Office of this Paper.

LONDON, S.W.—Required, Assistant for Dispensing business. State usual particulars and salary to "Xeo." (225/16), Office of this Paper.

LONDON, W.—John F. Harrington, 15 Kensington High Street, requires, by March 5, a qualified Assistant for Dispensing. Apply, stating full particulars, together with age, height, and salary required (outdoors), also when disengaged, and enclosing photo (to be returned).

LONDON, W.C.—Qualified Branch Manager wanted immediately; outdoors; single-handed; satisfactory references required. Apply, "Photographic" (220/29), Office of this Paper.

LONDON, W.C.—Part-time Assistant at once; evenings, 8 p.m. to 10 p.m. (Wednesday 7 p.m. to 10 p.m.); must be of good address and appearance and smart Salesman; knowledge of French preferable. Apply, stating salary required, F. G. Curtis & Sons, Chemists, 20 Bury Street (opposite British Museum).

MALVERN.—Qualified Assistant; indoors; accustomed to best-class Retail and Dispensing; not on Panel. Apply, stating usual particulars, to A. Mander, The Belle Vue Pharmacy, Malvern.

MANCHESTER.—Messrs. Blain & Hankinson, Pharmaceutical Chemists, 69 Market Street, require a Junior qualified Assistant; one recently passed and resident in the district preferred.

MANCHESTER.—Wanted, smart Improver or Junior for brisk business; applicants please state experience, salary required, and all particulars in first letter. Apply, Butcher & Simmons, 329 Chapel Street, Salford.

MANCHESTER.—Wanted, Junior Assistant or Improver for middle-class Cash Retail business; outdoors. State age, salary required, and copies of references to Lockwood's, Ltd., Chemists, Harpurhey, Manchester.

MARGATE.—Gentlemanly Assistant (indoors), about 24, with experience for good-class Retail and Dispensing business; salary £55 to £60, comfortable home. State age, height, and last two engagements to W. M. Rosser, Baily & Co., 2 Ethelbert Terrace, Margate.

MARGATE.—Qualified Branch Manager for permanency; competent and trustworthy; about 30; for good-class Retail and Dispensing business. Full particulars of last two engagements, age, height, and photo if possible, state salary (unfurnished rooms on premises), W. M. Rosser, Baily & Co., 2 Ethelbert Terrace, Margate.

MIDLANDS.—Competent first Assistant required; must be good Dispenser and Counterman; permanent and progressive berth. State age, whether married, and salary required, 220/34, Office of this Paper.

MILLER GENERAL HOSPITAL FOR SOUTH-EAST LONDON, Greenwich Road, S.E.—Qualified Lady Pharmacist required to fill the Senior post; candidates must have had previous experience in Institutional work; commencing salary £120 per annum, with lunch and tea. Applications, with copies of three recent testimonials, to be sent to the undersigned not later than February 22, 1915. Ernest Marks, Assistant Secretary. February 9, 1915.

NEAR Birmingham.—Unqualified Assistant wanted for Light Retail business, with N.H.I. Dispensing; probably for duration of war; working hours 54 per week; wages 38s. (outdoors). Rex Allen, Pharmacist, West Bromwich.

NORTH LANCASHIRE.—Junior Assistant; Dispensing and Photography; short hours; no Sunday duty; one half-day off each week; must be quick and obliging to customers; state salary expected and full particulars, with reference. Apply, S. Taylor, 178 Dalton Road, Barrow-in-Furness.

OLDHAM ROYAL INFIRMARY.—Wanted, a Junior (male) as Assistant to Dispenser; salary £60 per annum; hours 9 to 1, Saturdays 9 to 12.30, and alternate Sundays 1 hour; must have passed Preliminary examination. Applications, with copies of not more than three recent testimonials and particulars of previous training, to be sent to E. Lionel Blake, Superintendent and Secretary.

OLDHAM ROYAL INFIRMARY.—Applications are invited from Pharmacists (male) for the position of Chief Dispenser; salary £140 per annum. Applications, stating age, experience, and copies of not more than three recent testimonials, to be sent to E. Lionel Blake, Superintendent and Secretary.

PLYMOUTH.—Competent Assistant required (outdoors) for quick Cash Retail business; with knowledge of Photography and ability to dress Windows preferred. Please give full particulars to W. F. Goodwin, The Plymouth Co-operative Drug Co., 20 Cornwall Street, Plymouth.

PUTNEY.—T. Jones & Co. require an Assistant, age about 24 to 27; must be an accurate and fairly quick Dispenser, accustomed to good-class business, and have satisfactory references. Apply personally, or by letter, with photo if convenient, to Mr. Amoore, 5 Putney Hill.

SOUTHPORT.—Manager for branch for good-class Retail and Dispensing; knowledge of Photography preferred, but not essential; outdoors. Age, salary required, experience, references, and full particulars to J. R. Cave, Ltd., 52 Nevill Street, Southport.

SOUTH YORKSHIRE.—Wanted, a qualified Assistant, young, used to Mixed trade. Apply, Davy, Bridgegate, Rotherham.

STAFFORD.—Wanted, Assistant (outdoors) for good-class Family, Dispensing, and Optical business; hours light. State age, salary; experience, and enclose photo, J. Marson & Son, Stafford.

WESTON-SUPER-MARE.—Smart Junior required; good-class business; easy hours; comfortable indoor berth. Full particulars in first letter to F. Blackmore, 17 High Street.

WESTGATE-ON-SEA.—Reliable Assistant, lady or gentleman (outdoors), for good-class Retail and Dispensing business; must have some knowledge of Photography. Apply, stating age, height, experience, and salary required, to Messrs. H. & F. Pyman, The Pharmacy, Westgate-on-Sea.

WEST OF ENGLAND.—Dispenser required, with a Minor qualification; age about 25 years; approximate hours of duty 9 a.m. to 6 p.m.; no Sunday work. Apply by letter, stating wages required and experience, to 1,355, Sell's Advertising Offices, Fleet Street, E.C.

WEYBRIDGE.—A competent Assistant (outdoors) for high-class Dispensing business. State age, height, experience, references, salary required, etc., also enclose photo, E. T. Neathercole, Pharmaceutical Chemist, Weybridge.

WORTHING.—Assistant; 22-30; experienced Dispenser; outdoors; good salary to man prepared to work. Send photo if possible and full particulars of references, etc., in first letter to H. Reynolds, Pharmacist, West Worthing.

YORK.—Outdoor unqualified Assistant, about 26, required early as possible for high-class Counter and Dispensing; usual hours; no extra or Sunday duties and no N.H.I. Applicants please state age, height, experience, references, salary required, and enclose photo (to be returned), Burgin, Mansion House Pharmacy, York.

YORKSHIRE.—Junior required for good business in the West Riding; permanency and progressive salary to a smart young man. 220/304, Office of this Paper.

YORKSHIRE.—Elderly qualified Chemist required, mainly for N.H.I. Dispensing; comfortable and permanent berth. State salary and when at liberty, 225/34, Office of this Paper.

A CAPABLE Assistant, to take entire charge of the Dispensing and Retail of a high-class business; good salary and, if mutually suitable, a co-partnership arrangement could be made. Apply, with usual particulars, to 221/27, Office of this Paper.

A COMPETENT Assistant for Light Retail and Dispensing. A lady capable of undertaking Dispensing and Bookkeeping. Apply, with full particulars, to Doble, Chemist, Tavistock.

A GOOD Junior Assistant for Dispensing business. 4, 4, 6 of this Paper.

A N Assistant; age 21 to 25 preferred, but not essential; accustomed to Family Retail and Dispensing business doors; knowledge of Homoeopathy an advantage, but not essential; two kept; hours 8.30 to 9; usual half-day. Alban Atkins, West End Lane, West Hampstead.

A SSISTANT for Counter, Windows, Dispensing, and Photography; good salary to suitable man. Apply, with full particulars, to the Boleyn Drug Stores, Ltd., 127 and Barking Road, East Ham, E.

A SSISTANT, about 23, wanted at once, with good Dispensing experience; outdoors. Apply, R. C. Harrison, Gray, Surrey.

A SSISTANT, unqualified (outdoors), required for high-class business; good Dispensing and Counter experience essential; hours—open 8.45, close Monday, Tuesday 7.30, Wednesday 1, Thursday, Friday 8, Saturday 10; no Sunday permanent berth. Apply, stating full particulars of age, previous engagements, salary required, enclosing photograph. Hicks, Chemists, Cardiff.

A SSISTANT wanted; good Dispenser; knowledge of Photography. Crawford, Chemist, Horley, Surrey.

A SSISTANT wanted, with energy and ability; not eligible for Military service; permanency and good salary. Apply, V. Timothy White Co., Ltd., Chemists, Portsmouth.

A SSISTANT; unmarried. Enclose photo and state age, experience, references, and salary required (indoors). State Pharmacist, Barnstaple.

A SSISTANT wanted; short hours; no Wednesday or Saturday duties. Apply, stating age, height, reference, and photo when disengaged, Heath, 34 Corn Market, Derby.

A SSISTANT for Light Retail and Dispensing business; 8.30 to 8.30. Apply, with usual particulars, to E. Chemist, Reading.

A SSISTANT, qualified, required immediately for high-class business in Liverpool; good Dispensing, Counter, and Window-dressing; experience absolutely essential; applicants should state experience, age, salary required, and give two references; permanent berth with excellent prospects to good business possessing initiative and energy. Address, "Business" (2) Office of this Paper.

A SSISTANT, unqualified, experienced; capable of occupying charge; must be well up in Dispensing, Counter, and Window-dressing; can live on premises if married. Apply, with full particulars, and enclose photo, to "Virdom" 2, Office of this Paper.

A SSISTANT, about 21, for high-class Credit business; be well educated and of good address; no Insurance due. Apply, G. D. Yates, Claughton, Birkenhead.

A SSISTANT wanted (at once if desired); young, 21, unqualified; capable of taking charge; light easy business; no extra duties. Apply personally, or by letter, enclosing photo if possible, to R. M. Edwards, 169 Ewell Surbiton, S.W.

A SSISTANTS.—Several smart unqualified men wanted for high-class experience in Dispensing, Photography, and dressing essential; permanency to suitable men; reasonable and good salary; also smart, up-to-date Manager required, energetic, and capable. Apply, with fullest particulars, to 213/4, Office of this Paper.

A T ONCE.—Capable Junior, with knowledge of Photography; outdoors. H. Carlton, Chemist, Horncastle.

A T KINS & SON, Pharmacists, Salisbury, require immediate an unqualified Assistant (outdoors) for Counter work. Must possess good knowledge of Photography; good n. indispensable. State salary required, send photo (to be returned).

B IRDS', The People's Chemists, Coventry, have vacancies for smart Junior. State age, experience, salary required, and when disengaged.

B RADLEY & BOURDAS, 6 Pont Street, require an Assistant for Counter and Dispensing; outdoors. Apply to Mr. Bourdas.

JUNIOR Assistant for Country business: good Counter man and trustworthy Dispenser. Full particulars as to age, height, experience, references, and salary desired (outdoors), to Higgin, Chemist, Ipswich.

JUNIOR March.—Assistant, unqualified (outdoors), for Dispensing business. Clutterbuck, 8 Boulevard, Weston-super-Mare.

JUNIOR in March.—Wanted, an unqualified Assistant; outdoors; no Sunday duty; old-established Agricultural and Dispensing business in good market town. Apply, with full particulars of age, salary required, enclosing photo if possible, to Gostling & Co., Chemists, Diss, Norfolk.

ELDERLY qualified Chemist required, mainly for N.H.I. Dispensing; comfortable and permanent berth. State salary when at liberty, 220/340, Office of this Paper.

EXPERIENCED man to take entire charge of Dental Department, on sharing terms; established 20 years in connection with Drug and Surgical Stores; proprietor otherwise engaged. All particulars by post to Russell, "Kentish Independent," Woolwich.

JULIA SHARMAN, Northwood, Middlesex, requires immediately a thoroughly capable Assistant; two kept; high-class Dispensing: must have had good experience; reside on premises; housekeeper provided, with whom Assistant makes own arrangements; outdoor salary given. Applicants please give full particulars and enclose photograph.

MEDIALLY.—Reliable Junior; indoors; Dispensing, N.H.I., Counter. Full particulars, references to Sangster, College Crescent, Hampstead.

IMPROVER or Junior for good-class and Mixed country business. Please state age, height, experience, etc., salary required (outdoors), to Horrocks, Chemist, Knutsford.

JCHAMBERS, Pharmaceutical Chemist, Eastwood, Nottingham, will require a competent Assistant for Counter and dispensing early in March; moderate hours.

JUNIOR Assistant for high-class Dispensing business. State height, experience, and salary, Brassington, Pharmacist, Ormskirk.

JUNIOR Assistant for good country trade; light hours; Saturday 10 o'clock; Wednesday 1 o'clock. Fullest particulars, Twelves, Whittington Moor, Chesterfield.

JUNIOR or Improver wanted at once; suit young man just completing apprenticeship. Apply, giving usual particulars and salary required (outdoors), Troughton, Chemist, Lancaster.

JUNIOR.—Excellent opening for young man, age about 20-21; would suit one just out of apprenticeship; permanent berth with progressive salary. 220/034, Office of this Paper.

JUNIOR Assistant wanted at once in good-class Retail and Dispensing business, five miles from Manchester. Give full particulars and enclose photo if convenient, Frank Inglis, Pharmacist, Heaton Moor.

JUNIOR or Improver for Light Retail; time allowed for study if desired. Apply, with full particulars of age, experience, salary required (outdoors), to W. Shakespear, Pharmaceutical Chemist, Hinckley.

JUNIOR Assistant required; good middle-class trade. Apply, giving full particulars and salary required, Slinn, Pharmacist, Thyley.

JUNIOR Assistant or Improver wanted in March. Apply to L. H. Llewellyn, West-End Drug Store, Bridgwater.

JUNIOR Assistant, March 1; outdoors; near London; hours 8.30 to 8.30, Saturdays 10, Wednesdays 1 p.m., and one other evening off; Sunday evening duty one in three; good-class Dispensing, very little N.H.I. work; wages 35s.; comfortable berth to good worker. Apply, fullest particulars, 225/32, Office of this Paper.

LADY Dispenser required for Children's Hospital from March 1; salary £45 per annum, with board and laundry; candidates must hold the Minor qualification of Pharmaceutical Society Great Britain. Applications, with copies of recent testimonials, addressed to the Hon. Secretaries, to be delivered at the Hospital by noon on Monday, the 15th inst. A photo (to be returned) may be enclosed with the application. For any further information apply to C. W. Stamford, Assistant Secretary, Victoria Hospital for Sick Children, Hull.

LEWIS & BURROWS have a vacancy for a smart Junior Assistant, accustomed to Dispensing; South London. Apply, with full particulars, to Lewis & Burrows, Ltd., 146 Holborn Bars, E.C.

MANAGER.—Mr. E. Quanf, Torquay, requires a qualified Assistant, age about 30, with view to Managership.

MANAGER wanted for good-class London suburban business; outdoors. Apply, giving full particulars, and enclose photograph, to 223/3, Office of this Paper.

MANAGER required for large up-to-date business, West End of London; live out; share of profits. Apply, with full particulars, to 223/03, Office of this Paper.

MANAGER wanted for small branch business; qualified; would suit man just through his exams.; West London Suburb. Apply, full particulars, or personally, to Gould, 10 High Road, Chiswick, W. Telephone: Chiswick 1428.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist as Manager; not eligible for Military service; easy hours; good and progressive salary, with excellent prospects.

OUTDOOR Assistant wanted in good-class quick Retail and Dispensing business, with Photography; salary 45s. weekly. Apply, with full particulars, to Price, Chemist, 2 Guildford Road, Woking, Surrey.

PART-TIME Assistant; Wednesdays and Saturdays 9 a.m. to 9 p.m.; Mondays, Tuesdays, Fridays 6 to 9 p.m.; suit Student; good wages. Freeman, Chemist, Barking, Essex.

PART-TIME Assistant; four nights weekly 5.30-8.30, all day Saturday. Apply, with full particulars, "Pharmacist," 34 Cheapside, Golder's Green.

QUALIFIED Manager for Branch in Colliery district immediately; abstainer; permanency. Age, experience, and salary required to D. George, Chemist, Pentre, Glam.

QUALIFIED man for branch; working-class business. Please state salary and full particulars, Bagshaw, Chemist, Newton Heath.

QUALIFIED Senior for important post in West End; of good address and experience; personal interview essential. In first place send full particulars, with photo, to "Rhei," c/o Meggeson & Co., Miles Lane, Cannon Street, E.C.

QUALIFIED Assistant; two others kept; indoors; moderate hours; good-class business; comfortable; permanency; commencing salary £100. Fullest particulars in application. Apply, "Radix" (222/6), Office of this Paper.

QUALIFIED Assistant required; in- or out-doors; abstainer. State full particulars and salary required. "Statim" (220/3), Office of this Paper.

QUALIFIED (Minor) Dispenser, about 26, lady or gentleman; outdoors; immediate. Kindly give full particulars in first letter, age, height, experience, salary required, etc., and enclose photo, H. G. Williams, 118 The Moor, Sheffield.

QUALIFIED Assistant for Dispensing Counter. Apply, stating full particulars of previous experience, age, height, etc., to Roberts & Co., 76 New Bond Street, W.

RELIABLE Junior Assistant wanted at once (outdoors) in good-class Retail and Dispensing business; easy hours; no Sunday duty. State age, experience, salary, and references, to Johnson, Pharmacist, Stamford.

SMART Assistant wanted at once; unqualified; indoors; used to good-class Dispensing and Photography. Apply, giving fullest particulars as to salary required, experience, etc., to Cruse & Co., Ltd., 7 The Strand, E. Southsea.

SMART unqualified Assistant, mainly for Counter; Cash business; no Sunday duty. Full particulars, Kennedy, Chemist, 2 Park Road, Liverpool.

UNQUALIFIED Junior or Improver wanted; outdoors; no Sunday duty; hours easy. Apply, giving age, height, salary required, and all usual particulars, to J. & D. G. Rees, Chemists, 9 Fabian Street, Swansea.

UNQUALIFIED Assistant wanted immediately in Mixed Country business; must be steady, competent, and honest, and possess a knowledge of Photography; experience in country business; part travelling preferred; short hours and no Sunday duty. Full particulars, stating salary and reference, to Hogg, Chemist, Ulverston.

UNQUALIFIED Assistant for good-class business; outdoors; two kept. Full particulars, age, salary required, experience, etc., to Neve, 10 Victoria Parade, Norbury, S.W.

UNQUALIFIED, capable Assistant required at once in good-class business; easy distance of London. Please state age, salary (outdoors), and experience, 221/26, Office of this Paper.

URGENT.—Wanted immediately, lady or gentleman; Minor qualification. Wire terms (outdoors), Shelley's, Bilton, Staffs.

WANTED early in March, Assistant with good Dispensing experience, about 25; either in- or out-doors. Please state usual particulars to Read & Orchard, 47 Market Place, Salisbury.

WANTED, a Junior Assistant for good-class Retail; must be able to Dispense; hours from 10 to 10 p.m., Saturdays later; also Part-time Assistant for evenings from 6 till 10 p.m. (Thursdays free), all day Saturdays; must be able to Dispense. Further particulars apply, Prosser Roberts, Pharmaceutical Chemists, 13 Church Street, Camberwell.

WANTED, experienced Assistant for good-class Retail and Dispensing business; must be a reliable Dispenser. Apply, with full particulars, to L. Arden, Pharmaceutical Chemist, Winchester.

WANTED, an Assistant; good all-round man; able to Extract. State age and salary required, "S.", 5 Spital Street, Dartford.

WANTED, a Junior Assistant. Apply; with particulars, W. T. Clarkson, The Pharmacy, 14 Tower Street, West Hartlepool.

WANTED immediately, smart Junior and Dispenser. Usual particulars, Walsham, Pharmacist, Hanwell, W.

WANTED immediately, a steady, reliable Junior; one used to a quick Cash trade and with a knowledge of Photography preferred; must be a good Window-dresser. Apply, giving full particulars, age, experience, salary required (outdoors), and references, photo if possible, to Francis, Chemist, New Tredegar, South Wales.

WANTED immediately, a capable, reliable, respectable Assistant; outdoors; one who is used to a brisk country good-class business. Send references, photo, age to H. Richards, Chemist, Blandford, Dorset.

WANTED, in a good-class Retail and Dispensing business near London, a smart Junior Assistant; 35s. week; hours 9 till 8.30; half-day weekly. Apply, stating when disengaged, age, height, and full particulars, to "P. R.", c/o British Drug Houses, Graham Street, City Road, London, N.

WANTED, Assistant, a good all-round man, for medium-class trade. Glasspool, Shoreham-by-Sea.

WANTED for about four weeks, an unqualified Assistant; young. State, salary (out of doors), Davies, Chemist, Caterham.

WANTED, Assistants (outdoors). Apply, stating age, experience, and salary required, to L. Cameron, Pharmaceutical Chemist, Broad Street, Seaford, Sussex.

WANTED immediately, a Junior Assistant or Improver; indoors; comfortable home; easy hours. State salary required, references, etc., J. Evans, 28 Agincourt Square, Monmouth.

WANTED immediately, for health resort, N. Wales, qualified Manager; married; suit middle-aged man; good-class business; Photography essential; live on premises, house, rates, etc., free; permanency to suitable applicant; state full particulars, salary required, references (which must bear full investigation), and enclose photo if possible (to be returned); cost of removal refunded; expiration of twelve months if staying, otherwise half-cost refunded; an obliging, businesslike man will be generously dealt with. "Atlyn" (222/019), Office of this Paper.

WANTED, Junior or Improver for good Family business, with knowledge of Dispensing; no Sunday duty. Apply, giving full particulars, age, height, etc., and salary required (outdoors), enclosing photo (which will be returned), John Saville & Sons, Pharmacists, 4 Goodramgate, York.

WANTED, qualified Assistant, quick and accurate Dispenser, for first-class business; sleep on premises. Apply, Thomas Saxy & Milne, Cheltenham. Full particulars of experience, salary required, etc., in application.

WANTED at once, Junior or Improver in very good-class Dispensing and pushing Retail business; short hours; outdoors. Full particulars, enclosing photo, to "Ucal," 5 High Street, Waltham-on-Thames.

WANTED, experienced, qualified Assistant to live on premises; must have highest references and be good at Counter Dispensing, and Photography. Apply to H. W. Herbert, Chemist, Egham, Surrey.

WANTED, qualified Assistant, age about 25. Full particulars to Dyson & Co., 35 Gloucester Road, South Kensington, W.

WANTED, reliable young man for putting up Surgeons' orders, etc. State age, experience, and salary, Rimington, Bridge Street, Bradford.

WANTED immediately, Assistant for good-class business near London: two kept; lady not objected to; qualified preferred, but not essential; good salary. "Radix" (225/30), Office of this Paper.

WANTED, a competent Assistant for a good-class Light Retail and Dispensing business. Please state age, height, salary required (outdoors). Palmer, Pharmacist, Oxford.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

INDIA.—Old-established private firm require smart pushing Assistant with Minor qualification; excellent prospects for a man not afraid of work; personal interview with advertisers can be arranged. Apply, "G. W." Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, E.C.

COMPETENT Granulators and Tablet-makers required by London firm. Write, stating experience and wages required, 222/22, Office of this Paper.

COUNTER hands wanted in London house, with experience of either Wets or Drys; good prospects to suitable men. Apply, stating age and full particulars of experience, to 224/35, Office of this Paper.

DRUG hands wanted. State age, experience, and salary required, Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool.

DRY Floor.—Two or three experienced Dry-floor hands required; permanent work for suitable men. Apply, by letter, giving particulars of experience, wages, etc., to May & Baker, Ltd., Battersea, London, S.W.

INVOICE Clerk, with knowledge of Drug trade, wanted at once by the British Drug Houses, Ltd. Apply, giving full particulars, to the Head Clerk.

LABORATORY Porters and Packers of Glass to replace staff in the Army; good wages to expert, careful, and capable workers. Apply, 218/6, Office of this Paper.

LABORATORY Assistant and Improver for Galenicals and Chemicals required at once. Apply, stating experience, etc., to Burgoyne, Burbidges & Co., High Street South, East Ham, E.

LABORATORY Assistant, also Tablet-makers, required. 5.74c, Office of this Paper.

LABORATORY.—Capable man wanted in London house, with experience in the Manufacture of Chemical Syrups and Liquours, Ointments, Medicated Wines, etc. Apply, stating full particulars of age and experience, to 224/035, Office of this Paper.

MINOR.—A vacancy has occurred in a firm of Manufacturing Chemists for an Assistant holding the Minor qualification for the supervision of Stock, combined with Office routine; age about 25. Applicants should state age, salary required, and enclose photograph (to be returned), 4/20, Office of this Paper.

REPRESENTATIVE wanted for South Wales, Bristol and district, and South-West Counties to carry as additional sideline smart series of over 40 Toilet and Packed Goods; part expenses and liberal commission. White Band Mfg. Co., Ltd., S. Croydon.

PACKER required in the Warehouse. State wages, etc., to 3/74, Office of this Paper.

PHARMACIST, with literary ability and Advertising experience, required by large London firm. Send full particulars of age, experience, previous employment, and salary to 258/72, Office of this Paper.

QUALIFIED Assistant required by provincial Wholesale Drug-gists to assist the Manager of the Wet Room. Apply, giving particulars of age, experience, salary required, etc., 1/57, Office of this Paper.

REPRESENTATIVE.—An important Perfumery house requiring the services of a good Representative for Scotland and the North of England; must have good connection; preference given to one already working the ground for a Drug house or some allied trade; commission and part expenses. Apply, 220/7, Office of this Paper.

RESENTATIVES for good-selling line, on commission basis 10 per cent. and bonus; product supported by skilful mg. 224/37, Office of this Paper.

IES Counterman.—Junior wanted for City Wholesale Apply, giving full particulars, 1/13, Office of this

T (Lady) required for Office of Wholesale Druggists; one has had some experience in the trade preferred. State full rs and salary required to C. R. Harker, Stagg & Morgan, von Wharf, Emmott Street, Mile End, E.

HOUSE Clerk, experienced in the Returns Department of proprietary Medicine Warehouse and capable of assisting in goods for despatch, required by London firm. Application handwriting, giving fullest particulars of previous ent experience, with age and wages required, to Box 187, hell & Co., Ltd., 1 Snow Hill, E.C.

Counterman, experienced, wanted for Wholesale. State ticulars previous engagements, salary expected, and all y information, Timothy White Co., Ltd., Portsmouth.

Counterman, about 22, for Southwark district, with crence of Wholesale. State age, full particulars and wages to 2/56, Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

d. for 50 words or less; 6d. for every 10 words or less prepaid. The **Advertiser** may, if preferred, have replies to this Office, and forwarded on payment of an additional 6d.

ERLAND.—Assistant, qualified, with some knowledge of man and French, wanted on April 1, 1915. Send copies o to A. O. Werdmüller, Central Apotheke, Zürich.

FIED Manager wanted immediately for small business Johannesburg, must be thoroughly reliable and temperate; inencing £20 per month, increase with experience; not a by agreement; pay own passage; good hours; permanent Apprentice kept. Apply, with full particulars, to r, Rathmore, Cregagh Road, Belfast.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

Advertiser may, if preferred, have replies d to this Office, and forwarded on payment of an al charge of 6d.

[HOME.] RETAIL.

sts, trade circulars, samples, and printed matter can in e forwarded, the Box numbers being intended exclusively to answers to particular advertisements. The Publisher the right to open and refuse to forward any communio eived which he may consider contrary to this rule.

TTISER (30), married, unqualified, good Retail and Den- experience, desires berth in or near London as Assistant Manager where there is a good opening for Dentistry. file of this Paper.

stant where ability and sobriety would be appreciated; ion or near; Part-time or Relief for few weeks enter- engaged middle March. "Chemicus," 8 Harcourt Road, E.

ach Manager or Senior Assistant; qualified; experience; references; free March. 197/28, Office of this Paper.

nsider, Supervisor, etc.; qualified; single; 42; permanent ration or Part-time; some capital at command. "Minor" Office of this Paper.

S Manager, small branch; all-round man; disengaged; low salary. "Aspirin," 30 Scotswoods Road, Newcastle-on-Tyne.

SSISTANT; unqualified; married, no family; 33; good Sales- man and Prescriber; country town preferred. Williams, 14 Camden Terrace, Brighton.

SSISTANT, Dispensing, Counter, Window-dresser; accustomed sole charge; disengaged; local. 191 Dudley Road, Birmingham.

SSISTANT, unqualified, disengaged early in March, requires permanency; reasonable hours; Optical, Photography, Counter, Dispensing; 30; 5 ft. 9 in.; good Salesman; state salary, etc.; N.H.I. qualification; expert pricer. "Adeps," 28 Stratford Road, Thornton Heath, Surrey.

SSISTANT or Locum; 25; unqualified; Counter and Dispensing. "Statim," 29 Keswick Road, Blackpool.

SSISTANT; unqualified; 42; varied experience; N.H.I. "V." 3 Rectory Square, Stepney.

SSISTANT (28), married, desires permanency; provincial and London experience; London preferred; excellent references. G. A. Voikey, 9 Jameson Street, Notting Hill Gate, W.

BIRMINGHAM or Leamington Districts Preferred.—Assistant; 22; unqualified; good Counterman, Dispenser, etc.; competent to take charge; outdoors. Cullum, 6 Wilson Road, Reading.

BRANCH Manager or Assistant; capable Salesman; London only; unqualified; single; abstainer; 42; 5 ft. 10 in.; all-round experience. "Hodie," 10 Alfare Road, Clapton, London.

CAPABLE all-round Assistant seeks permanency; outdoors; married; unqualified; good Prescribing, Dispensing, Photography; used charge; willing; knowledge Herbal remedies. Apply, "Veritas" (223/25), Office of this Paper.

CHEMIST.—Englishman (33), married, with Continental training (Zurich), having occupied positions in laboratories and works on the Continent and in America, is desirous of a permanent position in England; five languages perfectly; also experience in literary work and translations. Box 3363, c/o Berry's, Gresham House, E.C.

CHEMIST; qualified; middle-aged; in indifferent health; single; services in return for living expenses. "Notice" (225/1), Office of this Paper.

DISENGAGED; Locum or permanent; excellent up-to-date Dispenser, Counterman, and Prescriber; capable of management; highest references; unqualified. "E.", 39 St. Thomas Road, Finsbury Park, N.

DISENGAGED; Assistant or Locum; thoroughly experienced, competent; reliable. "Energy," 29 Mardale Street, Shepherd's Bush.

DISPENSER (lady), unqualified, seeks post; Doctor or Chemist; good experience; reliable references. 215/25, Office of this Paper.

DISPENSER, 28 years' experience, seeks engagement; Doctor or Chemist; N.H.I. qualification; Prescriber, expert in Photography, Dentistry; keen and energetic; Hull and district preferred. 223/17, Office of this Paper.

DISPENSER, qualified (Hall), desires post; age 35; single; height 5 ft. 5 in.; 20 years' experience; Institutions, Medical men, and Chemists (Dispensing only); excellent testimonials; gentlemanly and obliging. "Veritas" (221/37), Office of this Paper.

EVENINGS, four weekly; qualified; from 6.30; N. London pre-ferred. 222/31, Office of this Paper.

JUNIOR, out of time, desires engagement as Dispenser or Counter hand in high-class establishment; excellent references. Edwards, Maesyrhag, Whitchurch, Cardiff.

LADY Dispenser-Bookkeeper; post with Doctor; temporary or permanent; seaside, near London; Folkestone preferred; disengaged March. "M. B.", 11 Granville Street, Aylesbury.

OCUM, town or country; permanency, town; thoroughly ex-perienced. Forster, 5 Coleridge Road, Finsbury Park, N.

OCUM, unqualified, or Relief; March 1; South or West re-ferred; all-round, Photography. "Locum" (223/025), Office of this Paper.

LOCUM or permanency; qualified; tall; 31; good Store experience; London and district preferred. Gibson, 3 MacLise Road, West Kensington.

M.P.S. and F.S.M.C. as Manager, with or without view to succession; a good-class Dispensing business preferred; permanency; married; best experience; highest references. 221/18, Office of this Paper.

MANAGER; qualified; 34; experienced, active; view purchase if required. "Drugs," Pontlothy, Cardiff.

MANAGER, Senior; Major; 43; experienced; Dispenser, Counter, Prescriber; disengaged shortly; good references; outdoors. "T," 103 Castle Boulevard, Nottingham.

MANAGER; qualified; married; 32; accustomed to high-class Dispensing; permanency desired; London or Suburbs preferred. "Alpha," 28 Shepherd's Bush Road, W.

MANAGER or Locum; good experienced Dispenser and Counter man; qualified. "Metol," 52 Bramley Road, Notting Hill, W.

MANAGER; qualified; West End or good suburb; best experience and reference; married. "D," 3 Kent House, Peterborough Road, Parson's Green.

MANAGER or Locum; qualified; good all-round experience; absolutely reliable. "M.P.S.," 326 Uxbridge Road, W.

MANAGER; 38; outdoors; London. "M.P.S.," 381 (Flat 3) Clapham Road, S.W.

MANAGER; qualified; married; experienced and capable of Managing business successfully; good references. 221/5, Office of this Paper.

MANAGER or Senior; 26; qualified; energetic; first-class experience; highest references; shortly disengaged. 221/38, Office of this Paper.

MANAGERSHIP or responsible position; qualified; middle-aged; tall, active; single; excellent references; disengaged about March 1. "Pharmacist," 72 Union Street West, Oldham.

MIDDLE-AGED; active; qualified; N.H.I. experience; disengaged March 1; considered an average all-round. 225/27, Office of this Paper.

PART-TIME Relief; all day Tuesdays or mornings. 225/18, Office of this Paper.

PART-TIME; two or three days weekly. "Qualified," 116 Galloway Road, Shepherd's Bush.

PHARMACIST; elderly, single, active; best-class experience; moderate salary. 221/34, Office of this Paper.

PHARMACIST (Minor and Irish qualifications) requires position of responsibility; high-class Dispensing and Counter experience. 221/23, Office of this Paper.

QUALIFIED; Manager; reliable, experienced. "Ph.C.," 113 Plashet Grove, East Ham, E.

QUALIFIED (30) desires permanency; married; good references. "Manager," 3 The Parade, Margate.

QUALIFIED (1892) desires situation; Plymouth preferred. Haworth, 105 Cotehill Avenue, Devonport. Disengaged March 1.

QUALIFIED; Locum, permanency; 36; married; Counter, Dispensing. Stewart, 3 Elborough Street, Southfields, S.W.

QUALIFIED; Locum or temporary Manager; near Liverpool preferred; 20 years' first-class experience; Dispensing, Window-dresser, Photography. "Aspiriu," 29 Avondale Road, Southport.

QUALIFIED; 42; single; all-round experience. "Chemist," 1 Robinson's Place, Woodbrook, Lees, Oldham.

QUALIFIED; 12 years' first-class Dispensing and business experience; London and provincial; Manager or Senior. 223/6, Office of this Paper.

QUALIFIED; all-round experience in good-class country business; competent; abstainer; married; middle-aged; references; South Wales Border preferred. State salary. "Pharmacist." (221/20), Office of this Paper.

UNQUALIFIED; 28; 9 a.m. to 6 p.m.; Dispensing, Homoeopathy, Photography, and Window-dressing; excellent Counter-man; West-End and Store trade; what offers? London only. "Push," 23 Cheapside, Golder's Green, N.W.

UNQUALIFIED; Manager, Stockkeeper, or Assistant; age 44; quick, reliable Dispenser, Extractor, smart Counter-man; good references. "Aceto," 62 Everton Road, C-on-M., Manchester.

UNQUALIFIED; 25; Sheffield or Yorks (West Riding); excellent experience; Wholesale, high-class Retail. W. E. Frost, 16 Clifton Street, Wolverhampton.

UNQUALIFIED; tall; 32; good Counter and Dispensing. N. lands preferred. Gifford, 133 Monument Road, Birmingham.

UNQUALIFIED; Junior; 20; Counter and Dispensing; Manchester district preferred. Address, "G. L." 207 Cheeth Hill Road, Manchester.

UNQUALIFIED Assistant; single; disengaged shortly; Counter Extractor, and N.H.I. "Barium" (221/12), Office of this Paper.

UNREGISTERED; single; 20 years' all-round experience; competent and reliable; used to management; tall. "Len" (223/19), Office of this Paper.

WHOLESALE.

DRUGGISTS' Sundries.—Assistant, thorough knowledge of trade, desires position of trust; competent to assist buying. 218/4, Office of this Paper.

BUSINESS man, with very considerable knowledge of office routine in Chemist's establishment, also wide experience through Ireland travelling in Chemists' goods, is open to offer. 215/24, Office of this Paper.

EXPERIENCED, tactful Representative, with Yorkshire connection, open for re-engagement first-class house; Toilet Requisites or Sundries; energetic; abstainer. Apply, 223/15, Office of this Paper.

GENTLEMAN, for many years Manager of a leading Chemical and Drug house (Wholesale), seeks suitable position; 20 years experience. Please reply to "Chemicals," c/o Pool's, 92 Fleet Street, E.C.

LIVE Traveller, 50, good experience, proved Salesmanship; desires change; any branch. "Manchester" (225/19), Office of this Paper.

MANAGING Clerk for the London house of Johann Mar Farina, Gegenüber dem Julichs-Platz, Cologne, require responsible position in consequence of war; office organisation and control on modern lines, up-to-date correspondence, accountancy, London and country representation, advertising; young keen, and energetic; first-class education. W. F. Pleasance, 2 Tregothnan Road, Clapham, S.W.

REPRESENTATIVE to call on Medical men and Chemists seeking position; 10 years' experience; 7 years last employers; suspended owing to war; ground covered, all towns north of Birmingham to Aberdeen, and Ireland; resides near Liverpool. "E. A. S." (220/36), Office of this Paper.

TRAVELLER, good connection in London and South Coast Chemists, Grocers, Stores, etc., seeks permanency in Proprietary or Sundries house. "Lodo," 6 Fleday Road, Lewisham S.E.

YOUNG man (23), with 9 years' Wholesale and Retail experience, would like change, as Traveller or otherwise, a home or abroad. Reply, "A. B." (223/20), Office of this Paper.

YOUNG energetic Commercial requires situation as Traveller calling upon Wholesale trade; willing to work within United Kingdom. 225/24, Office of this Paper.

Refugee Belgian Pharmacists

This section is devoted to the announcements of Belgian confrères at present in this country. We shall be pleased to insert gratis announcements of a similar character from other who are seeking situations in the Drug trade.

Cette section est réservée pour les annonces des confrères belges qui se trouvent actuellement dans ce pays. Nous serons heureux d'insérer gratis des annonces semblables à ceux cherchant des places dans le commerce des drogues.

ALKOLOID Products. — Experienced Chemist seeks post with Manufacturing firm; highest references. Apply, "I. L. 55 Belgrave Road, Ilford.

BELGIAN Refugee, with some experience in the sale of Toilet Preparations, etc., desires similar employment in the country; speaks French, Flemish, German, and English; London references. A. Sleg, 82 Baron's Court Road, W.

AN Pharmacy Student, second year, knowledge of Analytical Chemistry, seeks berth in Wholesale house or during Chemical works; speaks French, English, and E. Somers, 1 Brecon Terrace, Rotherfield, Sussex.

AN refugee, with 12 years' experience in the Pharmacis, are at Brussels, desires employment with a Wholesale or Manufacturer of Pharmaceutical specialities, or Reracism. Write to "M. Bernheim," Office of this Paper.

ANTED, position as Representative or Foreign Correspondent a Chemical or Wholesale Drug house; 25 years' experience, buying, selling, and exporting Drugs, Chemicals, Colours, &c.; 16 years established on own account in Brussels; speak and correspond in French, Spanish, Italian, German, and English. Write to Paul Humbolt, 82 Highbury New London, N.

G Belgian Student, (19), with some knowledge of Chemistry, desires situation at nominal remuneration where live with fellow-refugee, preferably in London. W. Van Es, c/o W. Fenteman Coates, 16 Chapel Lane, Headingley,

MISCELLANEOUS.

AM & TUCKNIS, Sharedealers, Bank Chambers, Blackfriars, S.E. Established 1898. Telephone 81 Lee Green. for Sale (free of commission, subject)—100 Idris "A" Vent. Preference, 6s.; 200 Ilford Ordinary, 10s. 10d.; 15s. 17s. 9d.; 100 Mazzatorta Ordinary, 2s. 4d.; 1,000 Iklai Ordinary, 13s. 10d.

(subject)—200 Camwall Ordinary and 200 Pref. Pence. effort made to effect business for Buyers and Sellers in and Shares. Bankers, London County and Westminster.

AINS in Second-hand Showcases and Shopfittings.—Wall s from 95s.; Glass-fronted Counters from 70s.; Dispensers from 90s.; Silent Salesmen from 65s.; Plate-glass Cases from 35s.; Perfume Cases and Desks from 40s.; s of pounds' worth of bargains in stock for the complete a modern Pharmacy. PHILIP JOSEPHS & SONS, LTD., Bent Builders and Shopfitters, 93 Old Street, London, E.C. 9057 London Wall. Send us your requirements. Full rs and sketches per return post.

D-HAND Chemist's Fittings.—We have an exceptionally selection of these in all sizes; prices are right, and in first-class condition; we shall be pleased to supply rs and prices. Call or write, RUDDUCK & CO., 262 st, London, E.C.

cash price paid for all old Cameras, any make, also all old goods, no matter how damaged; any kind you may have in along; cash will be sent same day; no waiting; we buy turn nothing. S.E. Hackett, 23 July Road, Liverpool, E.

1914, 10s. 6d. net cash; postage 5d., two copies 6d., three 7d.; abroad 9d. each; previously withdrawn. New and second-hand Books in every department; Literature; Chemists' and Students' requirements a buyers, please name wants, when prices will be quoted. Aids to Minor and Apothecaries' Examinations are in, and save College fees; descriptive list free. GOWER, and Bookseller, 41 Voltaire Road, Clapham, London.

ST.—Complete set of modern Fittings; good second-hand; Drug Fitting, complete; 10-ft. Glass-fronted Counter; Ensign Screen and Counter; Perfumery Case and Desk; Mahogany Bent Plate-glass Counter Case; 6-ft. Mahogany ; £45 10s. the lot; absolute bargain; cheapest house Enclosures, Glass Shelves, modern Shop Fronts, etc.; designs, estimates free. MILLS, Shop Front, Glass Facia Works, 163-5 Old Street, London, E.C. 0 London Wall.

LARGE QUANTITIES OF
ITE, LEAD GLASS TUBING
(Thin Wall) FOR SALE.
Sizes from $\frac{1}{4}$ in. to $\frac{5}{8}$ in. outside diameter.
Price 1/2 per lb., carriage forward.
& SELBY, Pelham Street, NOTTINGHAM.

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.
No advertisement inserted for less than 6d.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

FOR DISPOSAL.

DRUGS AND CHEMICALS.

SURPLUS.—2 drs. atropine, 30s. oz.; $\frac{1}{2}$ lb. pulv. cantharadis, 6s. lb. Calox, Lingdale, Boosbeck, S.O., Yorks.

TWO 1 oz. otto rose, finest synthetic, 9s. 6d. oz.; three 1 oz. ol. Neroli petal, finest, 12s. 6d. oz.; acid. tartaric pulv. cwt. keg, 1s. 9d. lb.; all carriage paid. White, Rippon's Pharmacy, Hanwell.

OPTICAL AND PHOTOGRAPHIC.

NO. 3 F.P.K. (faultless), in leather case, 50s.; Ensignette, in leatherette case (new) 20s. 222/30, Office of this Paper.

SHOP FITTINGS.

NATIONAL cash register, as new; total adder; gives receipts and coupons; cost £45; will accept £30; can be seen by appointment, London. 3/37, Office of this Paper.

JARS, dozen pink 2-lb., Maw's 1,463, as new; 150 shop-rounds, assorted sizes. Offers, "Chemicus," 4 Central Terrace, Redcar.

MISCELLANEOUS.

OFFER, best gum rubber water-bed, 6 by 3; used one week only. Apply, 223/015, Office of this Paper.

WANTED.

CASH register till, National or other make; must be cheap. Speier, Chemist, Dorchester.

RUSSIAN cantharides in good condition. State price, Storey, 42 Castle Street East, W.

WANTED, "British Pharmaceutical Codex," last edition. Lowest price post paid, Leicester, Burslem.

CHECK till wanted, O'Brien or similar make; must be cheap. Johnstone Adams, Murraygate, Dundee.

WANTED, Dartrix toilet lanoline, large and small tubes. State quantity and price, 219/11, Office of this Paper.

WANTED, 1-lb. original bottles Schering's levulose; any reasonable price paid. Colby, 101 Western Road, Brighton.

CHEMIST'S shop-fittings wanted, second-hand. Fullest particulars to Cooper & Son, Shopfitters, 23 King Street, Gravesend.

"CHEMIST AND DRUGGIST," January 2, 1915; 4d. offered for clean copies. Post flat to "S. B." Office of this Paper.

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ADDRESSES WANTED.

MRS. GRAY, lately trading in Southport as Madam Reska. Can any chemist oblige Cave, Chemist, Southport?

MR. W. T. COLLINS, formerly manager with Mr. Hart, Cranbourne Street, London; until a month ago at Boot's Drug Stores, Nottingham. Inquirer, Mr. Harry Green, Betterton Street, London, W.C.

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Drieberg, C., B.A., F.H.A.S. *Year-book of the Ceylon Agricultural Society*. 7×5. Pp. 136. ("Times of Ceylon" Co., Ltd.) [This annual gives much useful information adapted to the special needs of the Ceylon agriculturist, including a number of special articles and seasonable notes on planting.]

Thomas, J., B.Sc. *Muter's Short Manual of Analytical Chemistry*. 10×6 $\frac{1}{2}$. Pp. xiv+237. 10th edit. 6s. (Baillière, Tindall & Cox, 8 Henrietta Street, Covent Garden, London.) [The continued favour in which Dr. Muter's Manual is held by English-speaking students of pharmacy is unmistakably indicated by the appearance of this, the tenth, British edition of the work, which has also gone through five American editions. The arrangement of the matter is unaltered, and the changes have been, in the main, those necessitated by the introduction of the new British Pharmacopoeia. The general character and scope of the work are indicated by the following list of contents: Part 1, Qualitative Analysis: (1) The Processes Employed by Practical Chemists; (2) Detection of the Metals; (3) Detection and Separation of Acid Radicals; (4) Qualitative Analysis as Applied to the Detection of Unknown Salts; (5) Qualitative Detection of Alkaloids and Certain Organic Bodies used in Medicine, with a general sketch of Toxicological Procedure. Part 2, Quantitative Analysis: (6) Weighing, Measuring, and Specific Gravity; (7) Volumetric Quantitative Analysis; (8) Gravimetric Quantitative Analysis of Metals and Acids; (9) Ultimate Organic Analysis; (10) Special Processes for the Analysis of Water, Air, and Food; (11) Special Processes for the Analysis of Drugs, Urine, and Urinary Calculi; (12) Analysis of Gases, Polarisation, and Spectrum Analysis. A list of the atomic weights of the chief elements referred to in the Manual is given in an appendix. The methods of applying the limit-tests for lead and arsenic and the additional assay-processes of the B.P. 1914 have been included, and the volume therefore contains what are now the legal standards for chemicals, drugs, and galenical preparations where these are fixed by the Pharmacopoeia. In the division of Chapter X. dealing with the analysis of foods, a useful section on the analysis of cocoa has been incorporated. Taken all over, it may be said that the revision has been thoroughly and satisfactorily carried out, and the book will continue to be useful not only to pharmaceutical students, but to the wider circle of students of chemistry and also to pharmacists in business.]

NEW USE FOR ETHER.—Mr. H. F. Waterhouse, F.R.C.S., communicates to the "British Medical Journal," Feb. 6, a very interesting article on the use of ether in abdominal and similar operations. He pours a few ounces into the wound, and asepsis is thereby secured. Bacteriological experiments by Dr. W. W. C. Topley prove this.

Our American Letter.*(Special Correspondence to the "C. & D.")*

Capturing German Trade.—The Acting British Consul-General at Philadelphia reports that the Hart Chemical Corporation, of Easton, Pennsylvania, has been formed for the manufacture of potash and other chemical-litherto imported from Germany. The manufacture of some of the chemicals which have been the exclusive products of Germany will also be undertaken.

Digestive Ferments.—The Bureau of Chemistry, United States Department of Agriculture, states that examination of a number of products which purport to contain certain enzymes or ferment supposed to be useful in promoting digestion shows that these contain little, if any, of those active agents. Further investigation shows that the manufacturers frequently have employed a sufficient quantity of pepsin, diastase, pancreatin, trypsin, or similar material, but in many cases no attempt has been made to determine whether the material used is really active. In certain cases manufacturers have combined pepsin and trypsin, which tend to neutralize each other, and in other cases they have used pepsin in alkaline media which destroy activity, and have combined trypsin with acid substances which are not suited to it. Under certain methods of preparing the remedies heat is applied to a degree that may destroy the activity of the pepsin or other enzymes. Similarly many of these substances, which owe their properties to the action of enzymes, are put up in too strong alcoholic solutions or in other ways which lessen their effectiveness. The trouble with many of these preparations, however, is that they do not keep well, and, while active at first, after a time lose their digestive activity. The Department of Agriculture therefore warns manufacturers that preparations claiming to contain digestive enzymes should be put up in such a way that they will have suffered little, if any, loss of activity when sold to the consumer. In the case of preparations which are liable to deterioration within a few months, the Department suggests that each lot should be dated, and that sale after a certain fixed time should be prevented.

Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be sent to the Editor by Wednesday of the week before the meetings, etc., occur.

Wednesday, February 17.

Royal Microscopical Society, 20 Hanover Square, London, W. 1. 8 p.m. Professor G. Sims Woodhead, presidential address on "Some of the Micro-biological Problems of the Present War."

Thursday, February 18.

Chemical Society, Burlington House, Piccadilly, London, W. 1. 8.30 p.m. The following papers will be communicated: "Dielectric Constants of some Organic Solvents at the Melting or Boiling Points," by Messrs. J. D. Canwood and W. E. S. Turner; "The Preparation of Allyl Alcohol," by Mr. F. D. Chattock; "The Velocities of Flame in Mixtures of Methane and Air," by Mr. A. Parker.

Glasgow and West of Scotland Chemists' Association, Royal Institute, 237 West Campbell Street, at 9 p.m. Mr. Malcolm Irvine, Ph.C., on "The British Pharmacopoeia, 1914."

Friday, February 19.

Royal Institution of Great Britain, Albemarle Street, Piccadilly, London, W. 1. at 9 p.m. Professor H. E. Armstrong, F.R.S., on "The Visit of the British Association to Australia."

PETERBOROUGH CHEMISTS' ASSOCIATION.—The annual dinner will be held at the Angel Hotel on February 25 at 5 p.m., following the annual meeting of the Association. Tickets (5s. each) from Mr. H. E. Noble, Hon. Secretary, Long Causeway.

SOUTH-WEST LONDON PHARMACISTS' ASSOCIATION.—A whist-drive in aid of the Belgian Doctors' and Pharmacists' Relief Fund will be held on February 24 at the Clapham Hall, Clapham. Tickets (2s. 6d. each) from Mr. E. A. Atkins, Hon. Secretary, 71 E. Hill, Wandsworth, S.W.

EALING PHARMACISTS' ASSOCIATION.—A Bohemian concert will be held on February 24 at Bellomo's Restaurant, High Road, Chiswick (near Turnham Green Station). Tickets (1s. each ladies free) from Mr. Herbert Skinner, 16 Priory Gardens, Highgate, N.

DUNDEE AND EAST OF SCOTLAND PHARMACEUTICAL ASSOCIATION.—A social evening and whist-drive will be held at Lamb's Hotel, Dundee, on February 24, in aid of the Red Cross and Belgian Doctors' and Pharmacists' Funds. Tickets (gentlemen 3s. lady 2s. 6d.) from Mr. J. Robertson, 150 Ann Street, Dundee.

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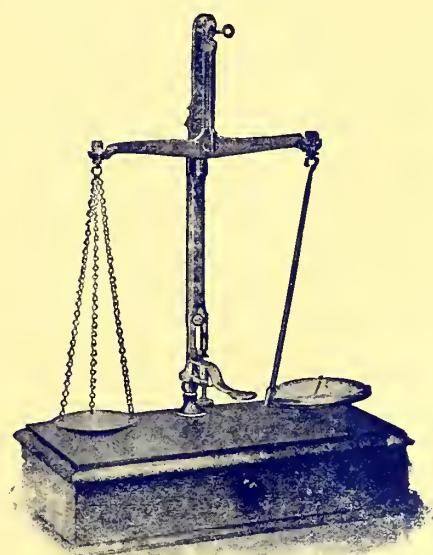
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